

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031620\
 Data File : VL034903.D
 Acq On : 16 Mar 2020 23:22
 Operator : SY/AP
 Sample : L1924-06
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 17 04:28:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 09 16:42:53 2020
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

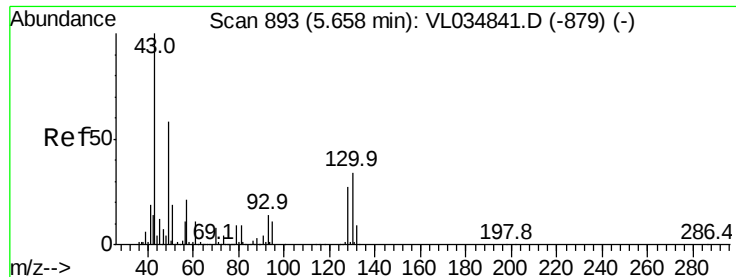
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	934470	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	1974001	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	1863321	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1518292	10.45	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	92999	0.727	ppbv	92
3) Chlorodifluoromethane	2.92	51	216378	2.073	ppbv #	71
4) Chloromethane	3.10	50	22142	0.375	ppbv #	86
9) Propene	3.17	41	65039	1.305	ppbv	86
10) Heptane	8.14	43	4068	0.033	ppbv #	25
11) Trichlorofluoromethane	3.79	101	7266	0.053	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.47	101	18058742	189.535	ppbv #	80
13) Ethanol	3.58	45	481063	31.749	ppbv	95
15) Acetone	3.83	43	3471152	28.660	ppbv	98
16) 1,3-Butadiene	3.31	39	35783	0.653	ppbv #	9
17) tert-Butyl alcohol	4.26	59	773028	6.625	ppbv #	75
18) 1,1-Dichloroethene	4.26	96	7523227	178.298	ppbv #	57
19) Isopropyl Alcohol	3.95	45	257156	3.362	ppbv #	1
20) Methylene Chloride	4.32	84	88775	2.318	ppbv	97
21) Allyl Chloride	4.47	41	4010	0.052	ppbv #	1
22) trans-1,2-Dichloroethene	4.87	96	13930	0.325	ppbv #	95
23) Vinyl Acetate	5.04	43	60553	0.338	ppbv #	1
24) 1,1-Dichloroethane	5.00	63	1396481	11.644	ppbv	99
26) Hexane	5.68	57	17655	0.190	ppbv #	1
27) Carbon Disulfide	4.53	76	59147	0.561	ppbv #	79
29) Chloroform	5.75	83	2501483	17.645	ppbv	98
30) Cyclohexane	7.14	84	20524	0.265	ppbv #	51
31) cis-1,2-Dichloroethene	5.55	61	4330691	45.575	ppbv	92
32) 1,1,1-Trichloroethane	6.52	97	10327629	74.763	ppbv #	84
34) 2-Butanone	5.25	43	42867	0.327	ppbv	97
35) Carbon Tetrachloride	7.02	117	6112	0.050	ppbv #	40
36) Benzene	6.91	78	24610	0.140	ppbv	94
37) 1,2-Dichloroethane	6.51	62	1023581	10.317	ppbv #	1
38) Trichloroethene	7.86	130	13239925	198.129	ppbv	91
39) 1,2-Dichloropropane	7.86	63	92661	1.329	ppbv #	1
40) 1,4-Dioxane	7.85	88	3689	0.140	ppbv #	1
42) Bromodichloromethane	7.86	83	298039	2.204	ppbv #	96
44) 2,2,4-Trimethylpentane	7.89	57	17579	0.059	ppbv #	42
52) Tetrachloroethene	11.24	164	18167	0.261	ppbv	90
53) Toluene	9.83	91	32669	0.161	ppbv #	4

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.01 min

Lab File: VL034903.D

Acq: 16 Mar 2020 23:22

Instrument :
MSVOA_L
ClientSampled :

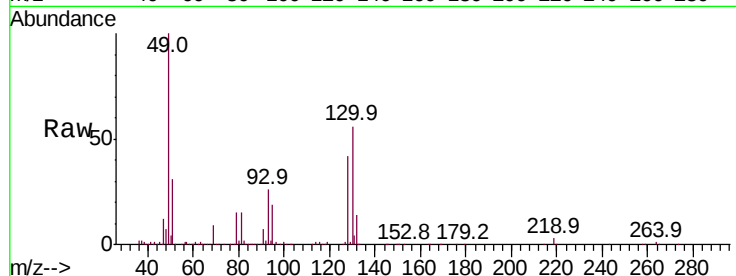
Tot Ion: 49 Resp: 934470

Ion Ratio Lower Upper

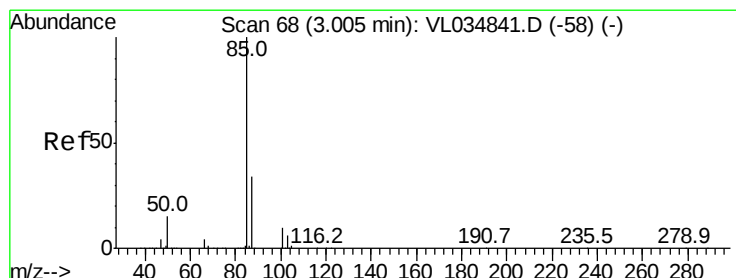
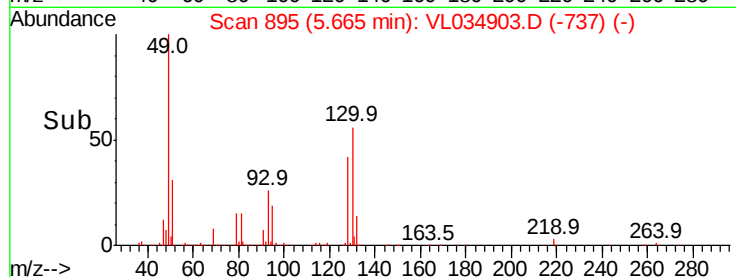
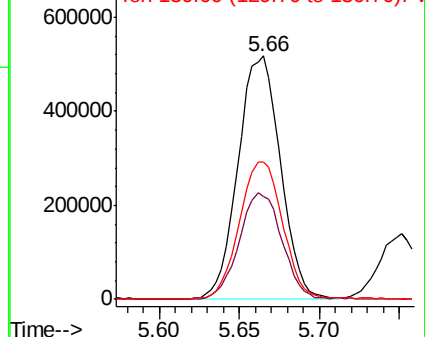
49 100

128 44.5 23.4 70.3

130 58.4 30.0 90.0



Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.727 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL034903.D

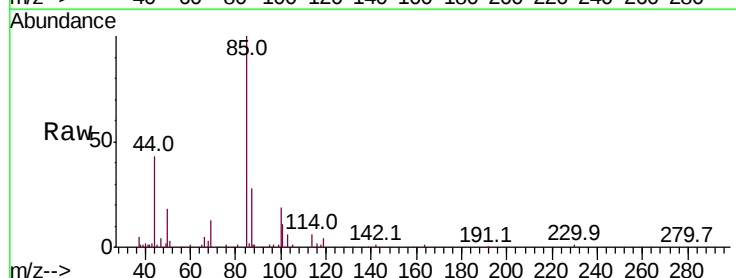
Acq: 16 Mar 2020 23:22

Tgt Ion: 85 Resp: 92999

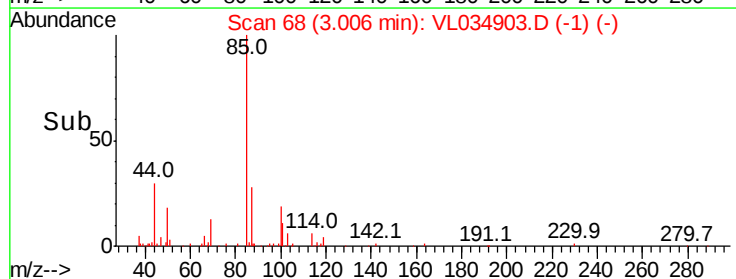
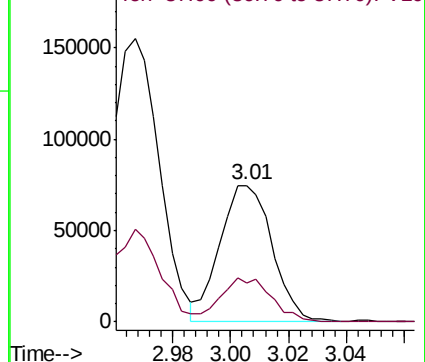
Ion Ratio Lower Upper

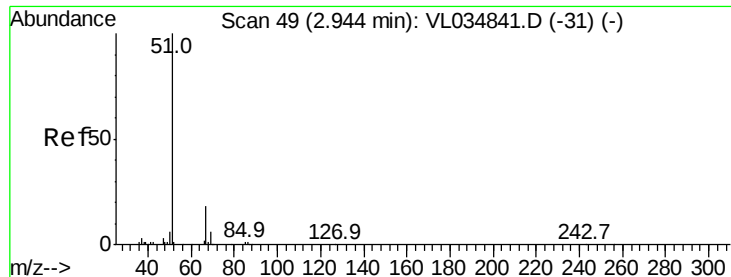
85 100

87 29.2 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 2.073 ppbv

RT: 2.92 min Scan# 41

Delta R.T. -0.03 min

Lab File: VL034903.D

Acq: 16 Mar 2020 23:22

Instrument :

MSVOA_L

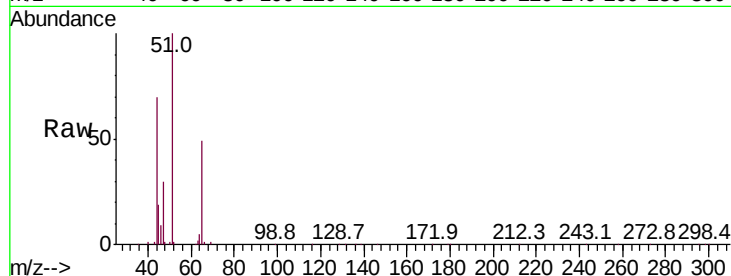
ClientSampled :

Tot Ion: 51 Resp: 216378

Ion Ratio Lower Upper

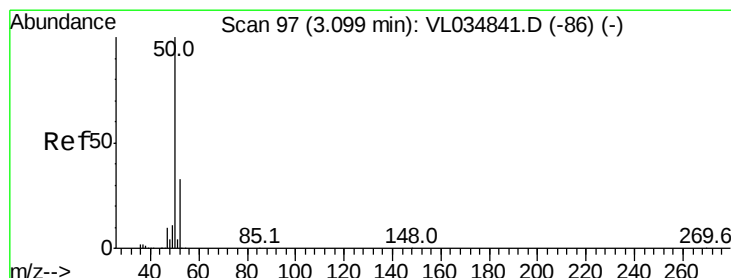
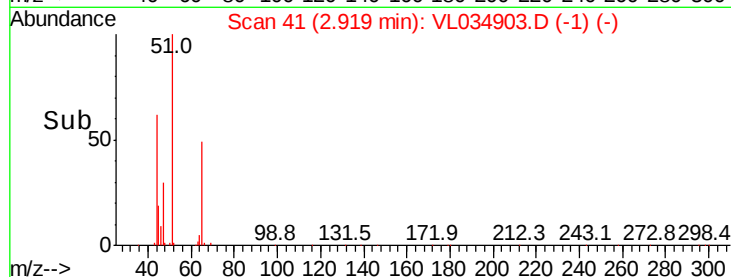
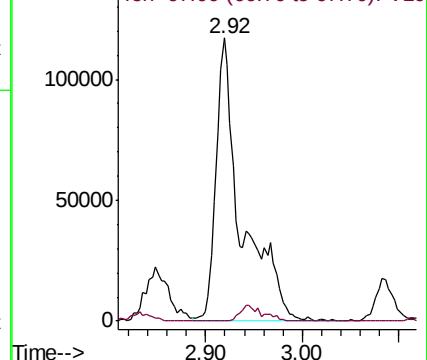
51 100

67 5.0 14.3 21.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.375 ppbv

RT: 3.10 min Scan# 97

Delta R.T. 0.00 min

Lab File: VL034903.D

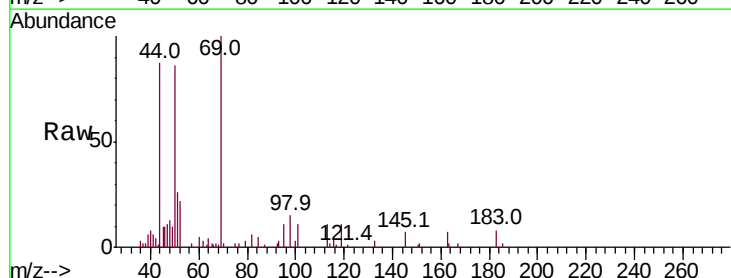
Acq: 16 Mar 2020 23:22

Tgt Ion: 50 Resp: 22142

Ion Ratio Lower Upper

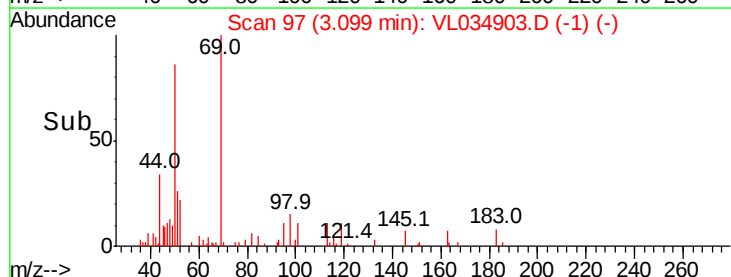
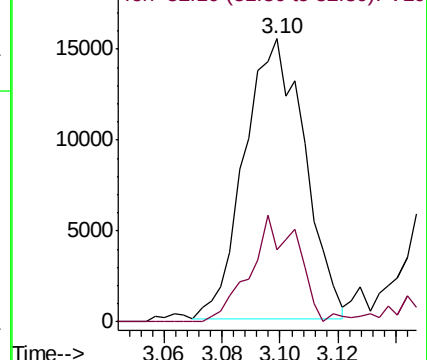
50 100

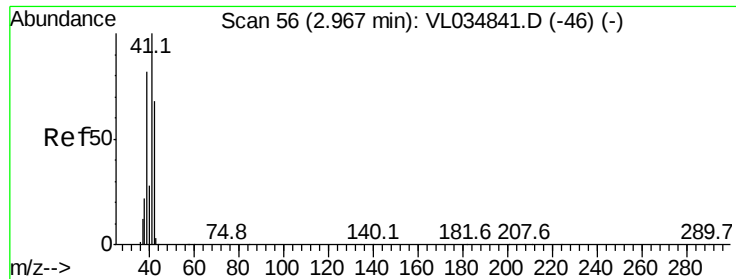
52 25.7 26.8 40.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.305 ppbv

RT: 3.17 min Scan# 118

Delta R.T. 0.20 min

Lab File: VL034903.D

Acq: 16 Mar 2020 23:22

Instrument :

MSVOA_L

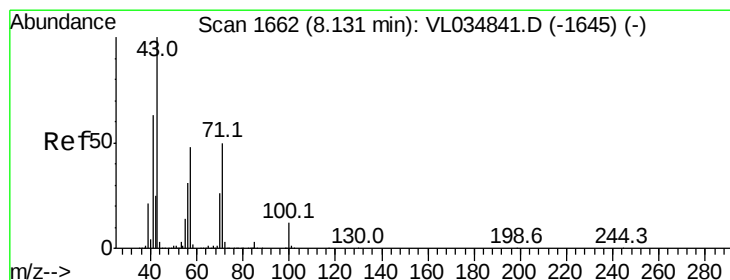
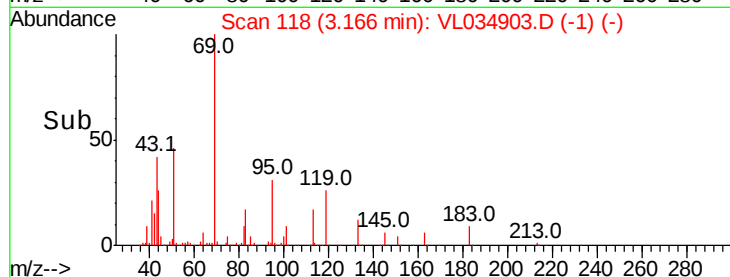
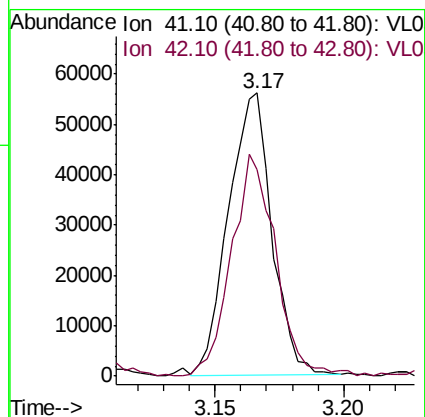
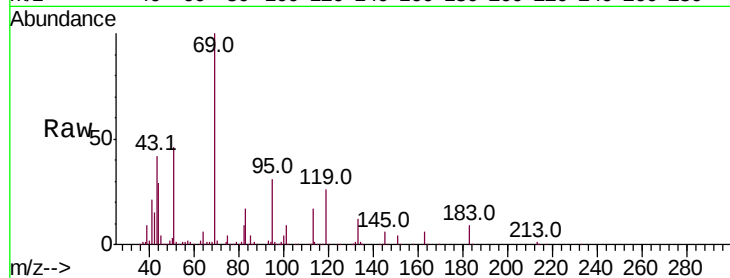
ClientSampleId :

Tot Ion: 41 Resp: 65039

Ion Ratio Lower Upper

41 100

42 80.7 55.2 82.8



#10

Heptane

Concen: 0.033 ppbv

RT: 8.14 min Scan# 1665

Delta R.T. 0.01 min

Lab File: VL034903.D

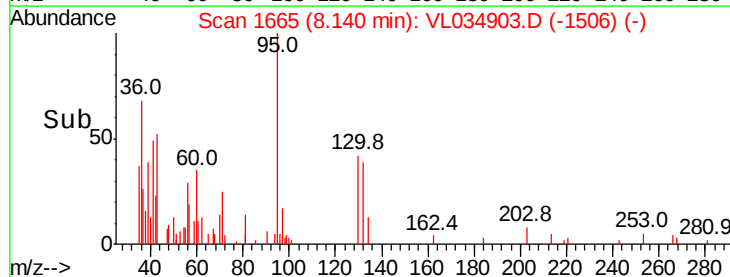
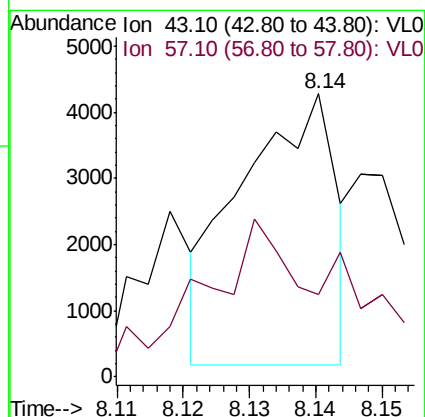
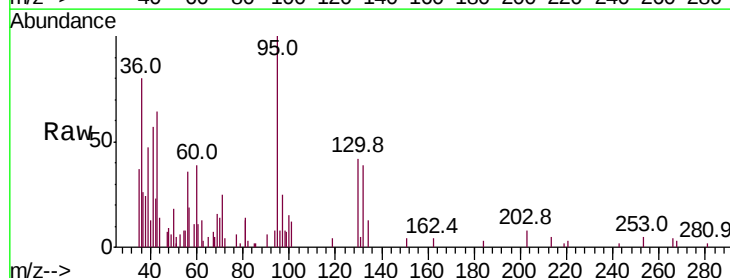
Acq: 16 Mar 2020 23:22

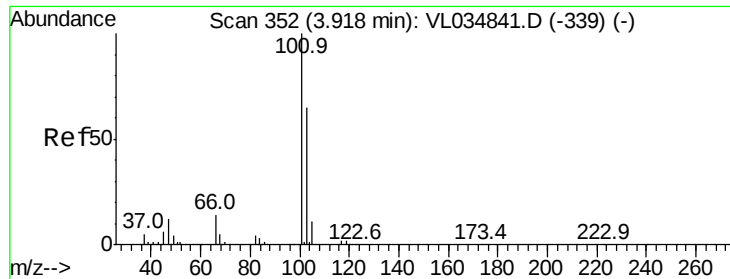
Tgt Ion: 43 Resp: 4068

Ion Ratio Lower Upper

43 100

57 101.3 39.7 59.5#

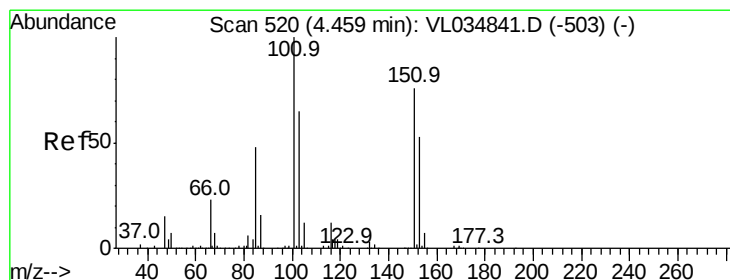
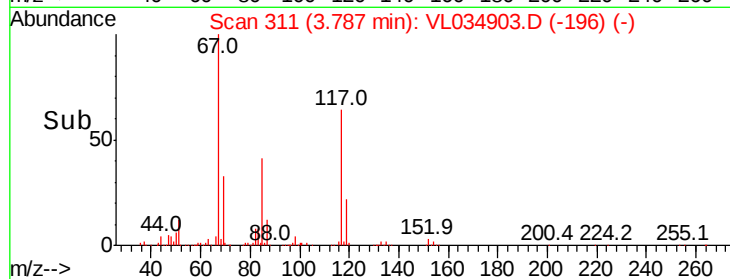
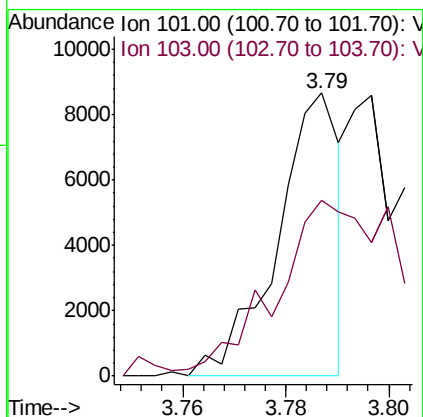
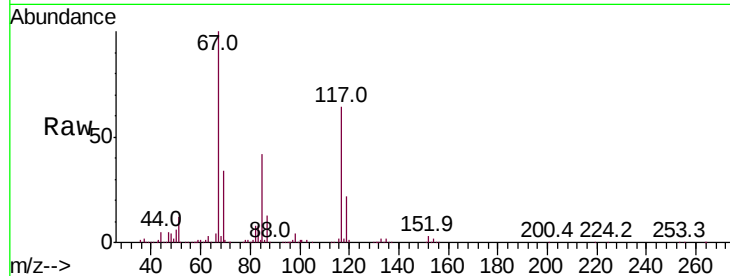




#11
 Trichlorofluoromethane
 Concen: 0.053 ppbv
 RT: 3.79 min Scan# 311
 Delta R.T. -0.13 min
 Lab File: VL034903.D
 Acq: 16 Mar 2020 23:22

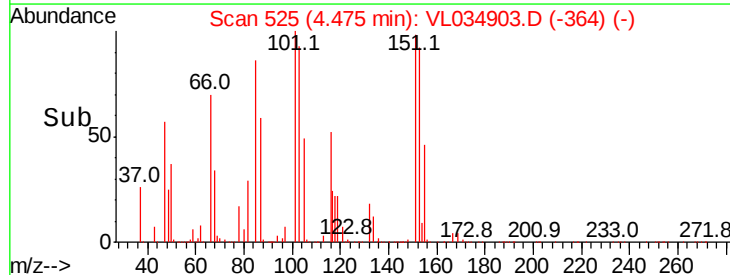
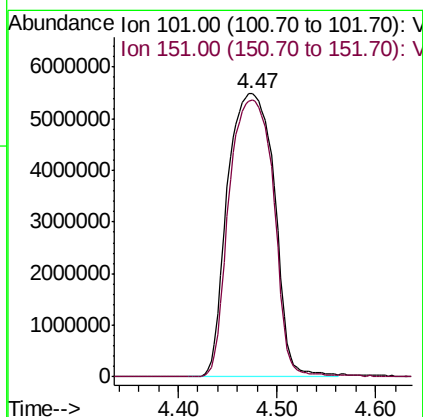
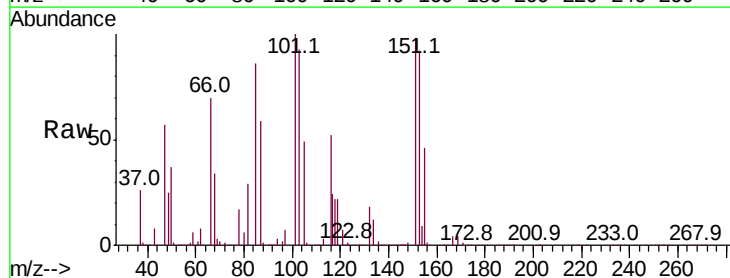
Instrument :
 MSVOA_L
 ClientSampleId :

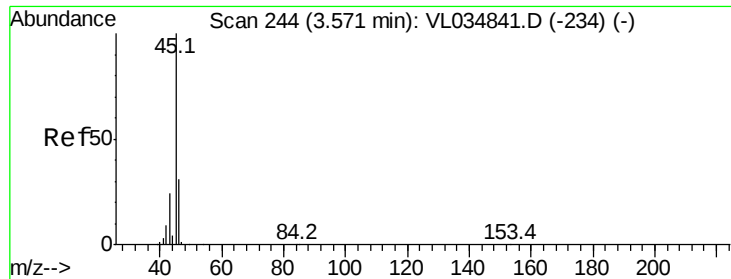
Tot Ion:101 Resp: 7266
 Ion Ratio Lower Upper
 101 100
 103 59.5 51.8 77.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 189.535 ppbv
 RT: 4.47 min Scan# 525
 Delta R.T. 0.02 min
 Lab File: VL034903.D
 Acq: 16 Mar 2020 23:22

Tgt Ion:101 Resp:18058742
 Ion Ratio Lower Upper
 101 100
 151 93.1 60.8 91.2#





#13

Ethanol

Concen: 31.749 ppbv

RT: 3.58 min Scan# 246

Delta R.T. 0.01 min

Lab File: VL034903.D

Acq: 16 Mar 2020 23:22

Instrument :

MSVOA_L

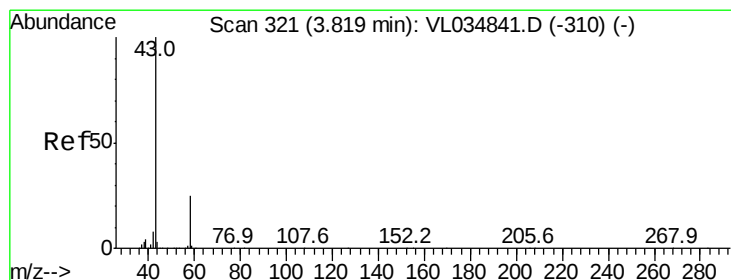
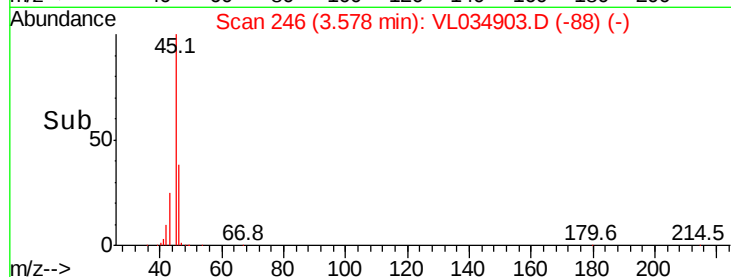
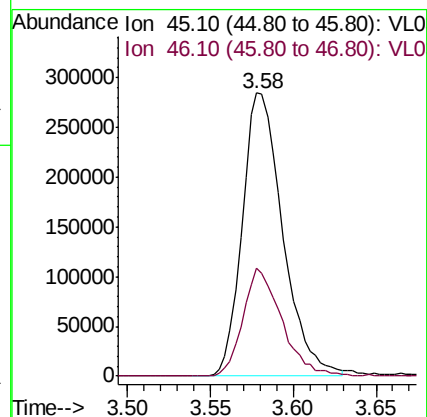
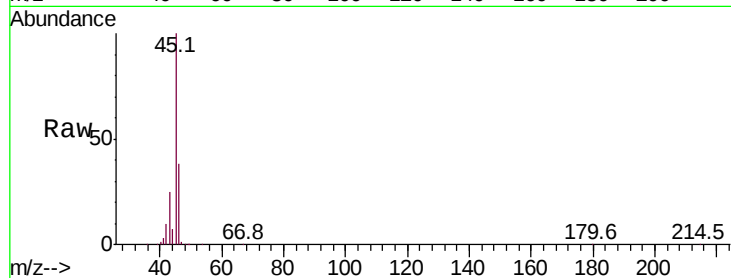
ClientSampled :

Tot Ion: 45 Resp: 481063

Ion Ratio Lower Upper

45 100

46 37.1 16.0 64.0



#15

Acetone

Concen: 28.660 ppbv

RT: 3.83 min Scan# 324

Delta R.T. 0.01 min

Lab File: VL034903.D

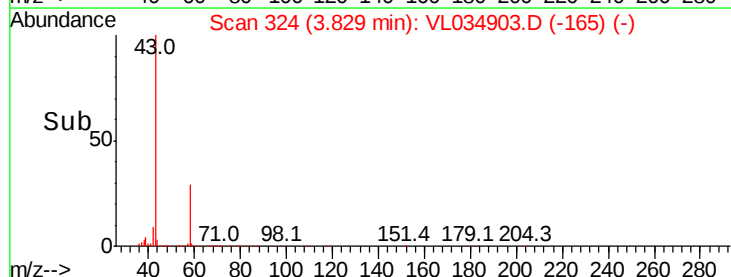
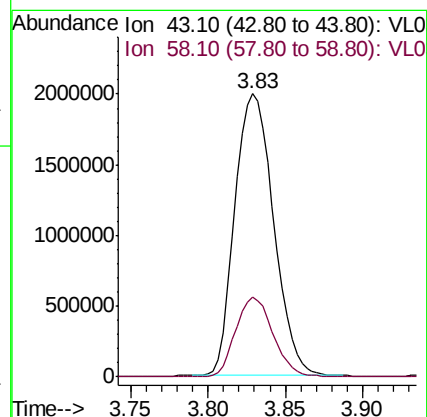
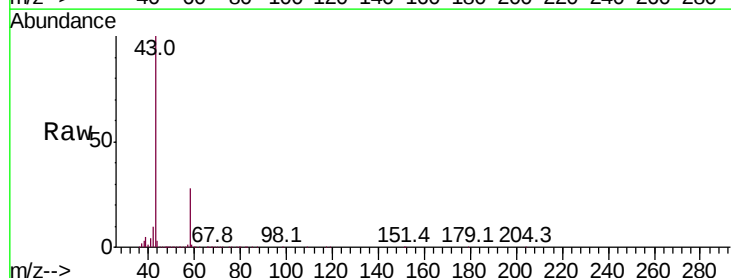
Acq: 16 Mar 2020 23:22

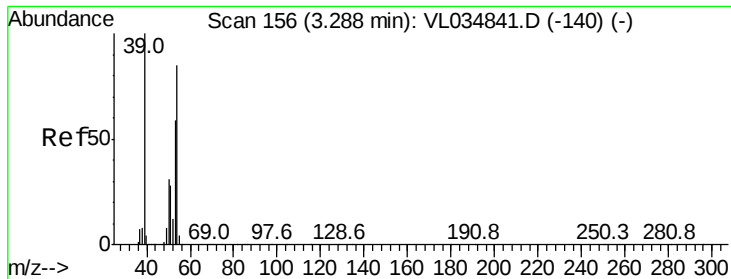
Tgt Ion: 43 Resp: 3471152

Ion Ratio Lower Upper

43 100

58 27.5 21.0 31.6

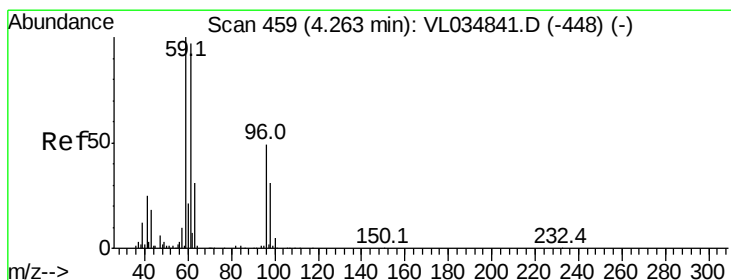
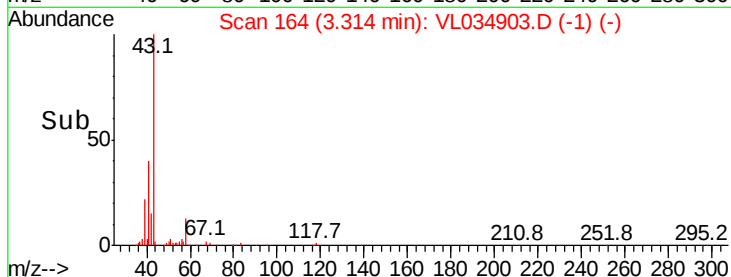
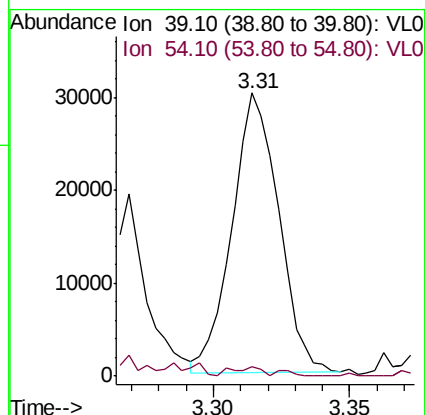
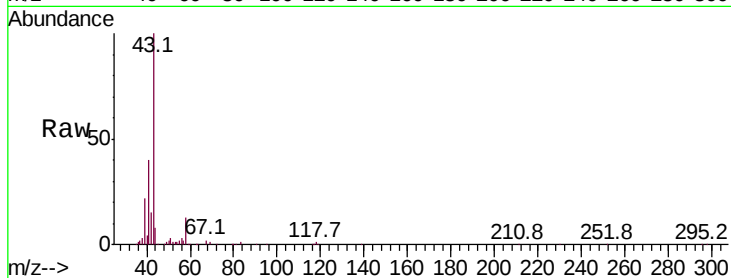




#16
 1,3-Butadiene
 Concen: 0.653 ppbv
 RT: 3.31 min Scan# 164
 Delta R.T. 0.03 min
 Lab File: VL034903.D
 Acq: 16 Mar 2020 23:22

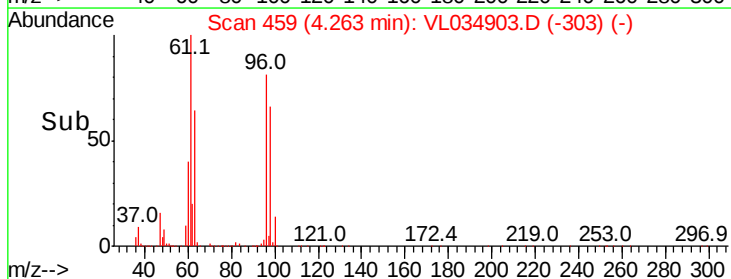
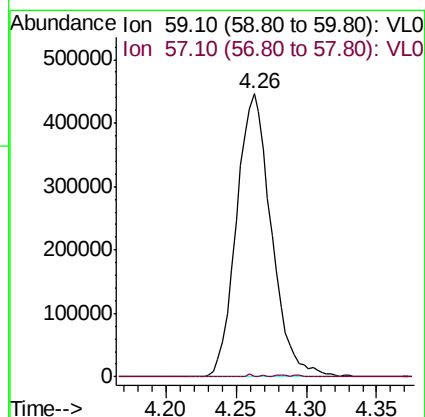
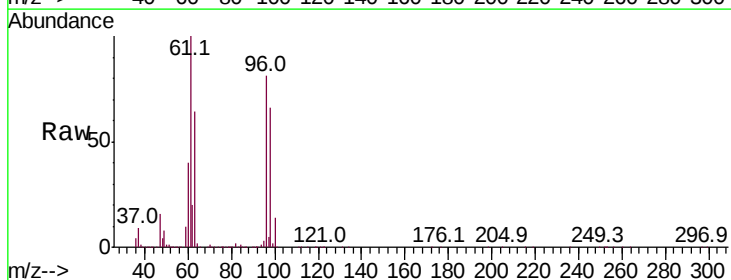
Instrument :
 MSVOA_L
 ClientSampleId :

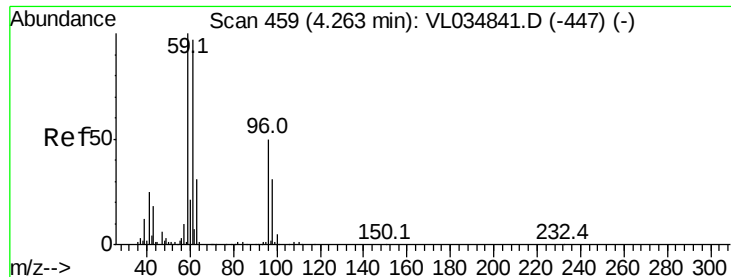
Tot Ion: 39 Resp: 35783
 Ion Ratio Lower Upper
 39 100
 54 0.0 65.0 97.6#



#17
 tert-Butyl alcohol
 Concen: 6.625 ppbv
 RT: 4.26 min Scan# 459
 Delta R.T. 0.00 min
 Lab File: VL034903.D
 Acq: 16 Mar 2020 23:22

Tgt Ion: 59 Resp: 773028
 Ion Ratio Lower Upper
 59 100
 57 0.9 8.3 12.5#



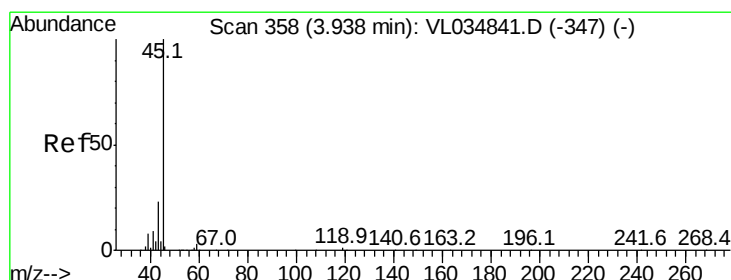
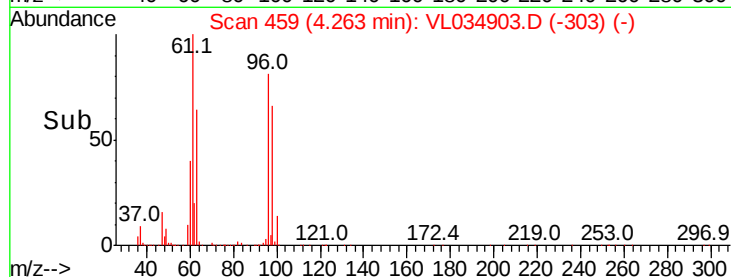
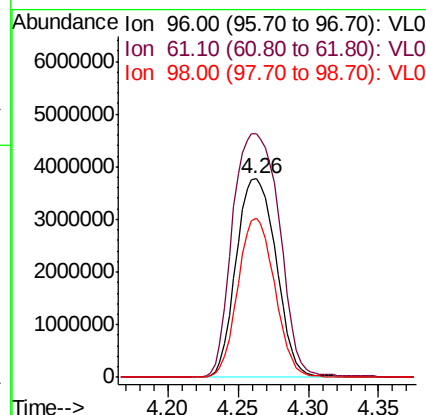
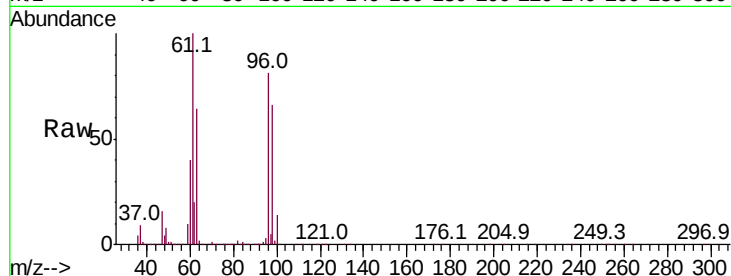


#18
 1,1-Dichloroethene
 Concen: 178.298 ppbv
 RT: 4.26 min Scan# 459
 Delta R.T. 0.00 min
 Lab File: VL034903.D
 Acq: 16 Mar 2020 23:22

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 96 Resp: 7523227

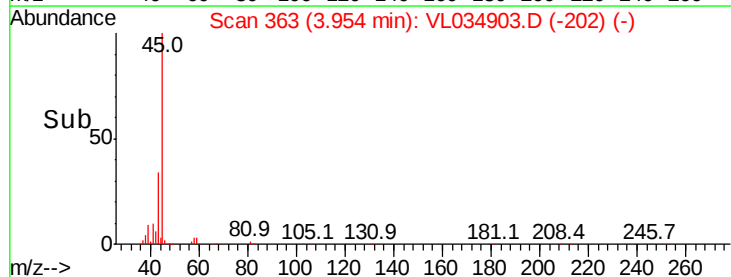
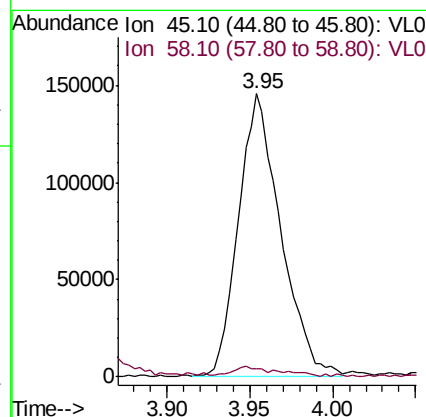
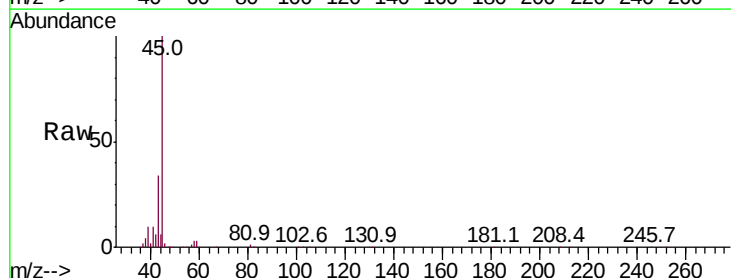
Ion	Ratio	Lower	Upper
96	100		
61	122.7	157.3	235.9#
98	80.4	50.2	75.4#

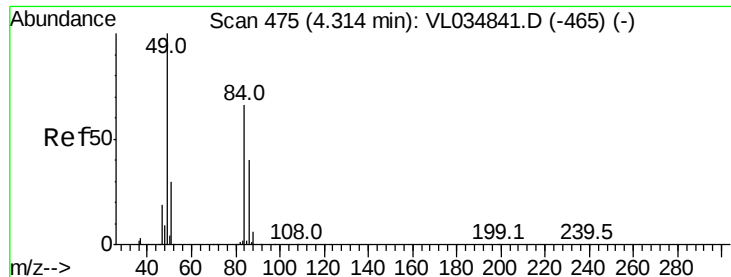


#19
 Isopropyl Alcohol
 Concen: 3.362 ppbv
 RT: 3.95 min Scan# 363
 Delta R.T. 0.02 min
 Lab File: VL034903.D
 Acq: 16 Mar 2020 23:22

Tgt Ion: 45 Resp: 257156

Ion	Ratio	Lower	Upper
45	100		
58	371.4	30.5	45.7#

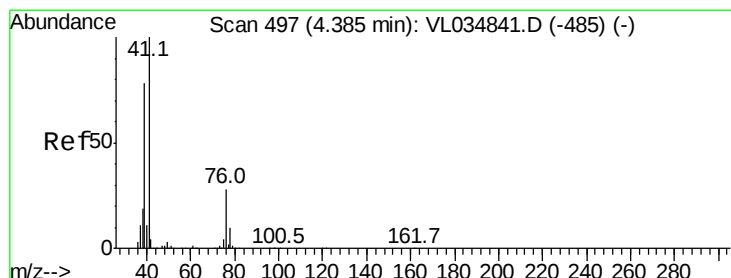
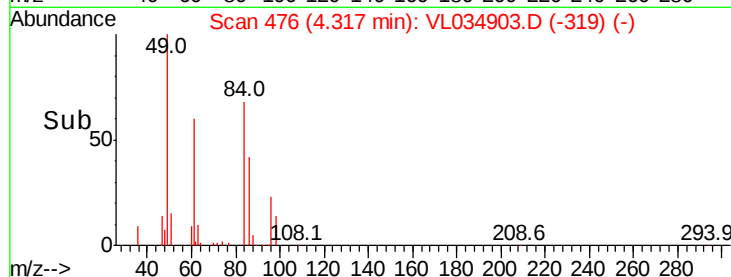
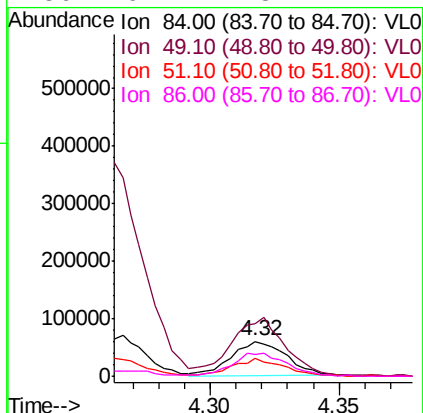
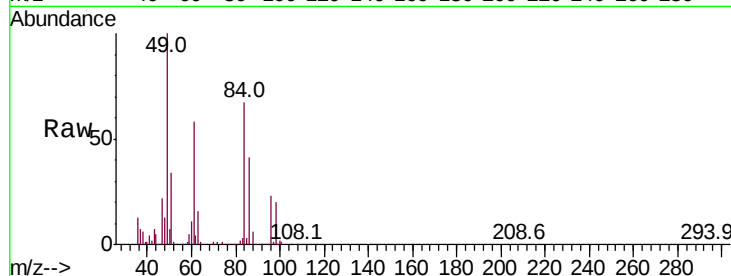




#20
Methvlene Chloride
Concen: 2.318 ppbv
RT: 4.32 min Scan# 476
Delta R.T. 0.00 min
Lab File: VL034903.D
Acq: 16 Mar 2020 23:22

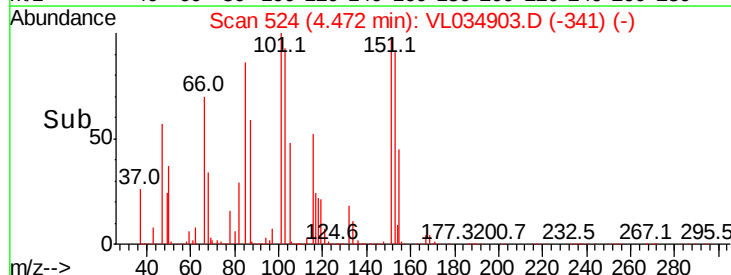
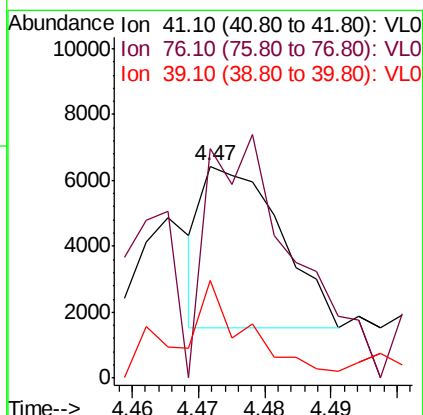
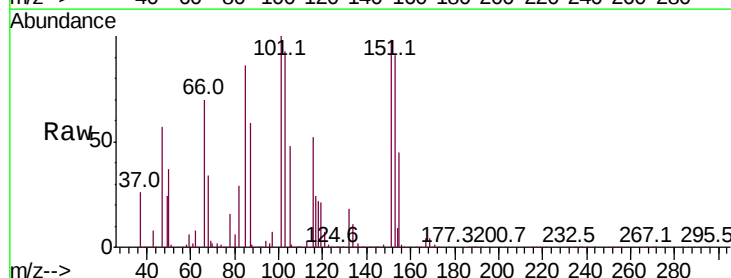
Instrument :
MSVOA_L
ClientSampled :

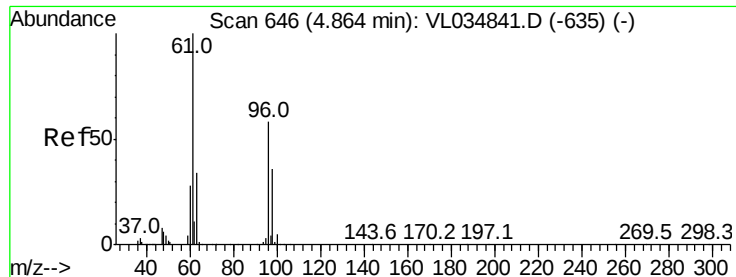
Tot Ion: 84 Resp: 88775
Ion Ratio Lower Upper
84 100
49 148.6 121.5 182.3
51 49.9 36.6 55.0
86 61.4 48.2 72.2



#21
Allyl Chloride
Concen: 0.052 ppbv
RT: 4.47 min Scan# 524
Delta R.T. 0.09 min
Lab File: VL034903.D
Acq: 16 Mar 2020 23:22

Tgt Ion: 41 Resp: 4010
Ion Ratio Lower Upper
41 100
76 280.9 22.2 33.2#
39 0.0 62.6 93.8#





#22

trans-1,2-Dichloroethene

Concen: 0.325 ppbv

RT: 4.87 min Scan# 649

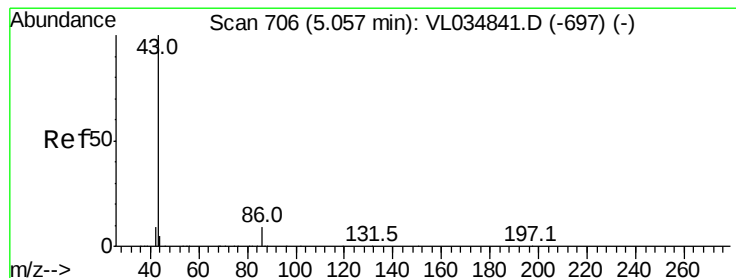
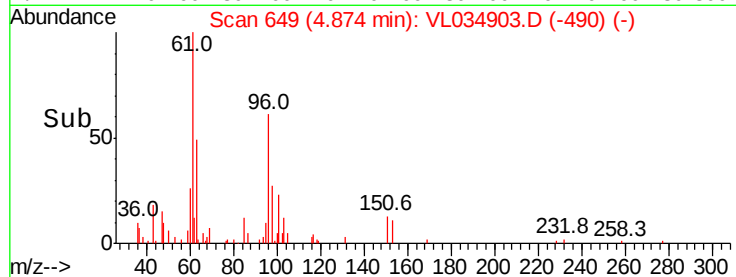
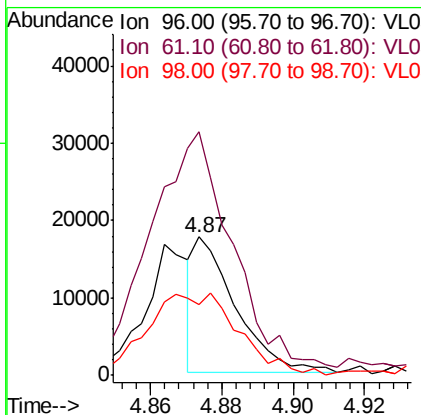
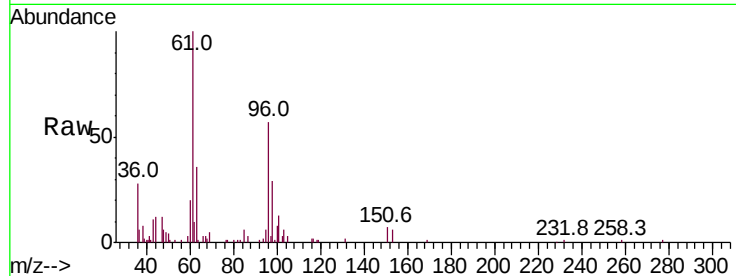
Delta R.T. 0.01 min

Lab File: VL034903.D

Acq: 16 Mar 2020 23:22

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 96 Resp: 13930
Ion Ratio Lower Upper
96 100
61 172.7 139.0 208.6
98 50.2 50.3 75.5#



#23

Vinyl Acetate

Concen: 0.338 ppbv

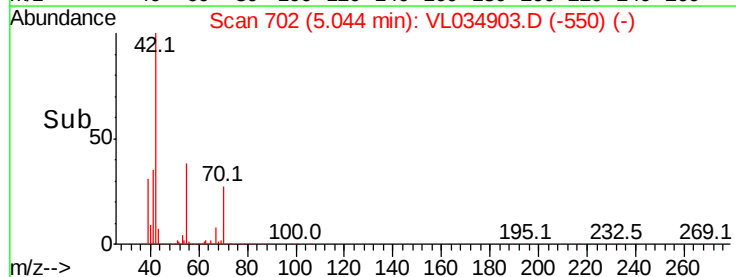
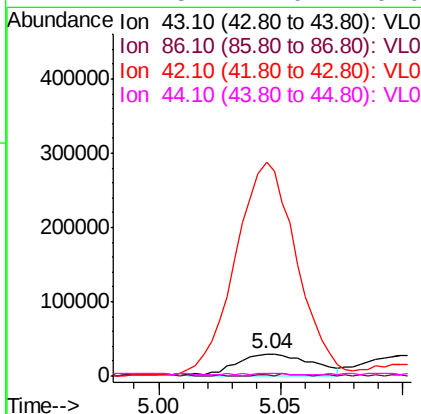
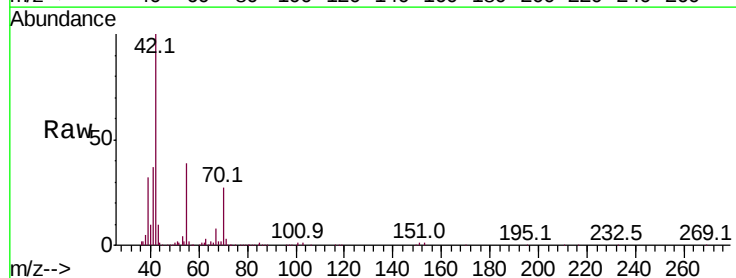
RT: 5.04 min Scan# 702

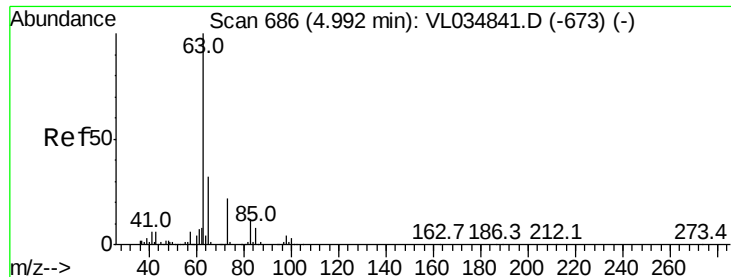
Delta R.T. -0.01 min

Lab File: VL034903.D

Acq: 16 Mar 2020 23:22

Tgt Ion: 43 Resp: 60553
Ion Ratio Lower Upper
43 100
86 1.0 6.3 9.5#
42 978.1 7.8 11.8#
44 2.5 4.0 6.0#





#24

1,1-Dichloroethane

Concen: 11.644 ppbv

RT: 5.00 min Scan# 688

Delta R.T. 0.01 min

Lab File: VL034903.D

Acq: 16 Mar 2020 23:22

Instrument :

MSVOA_L

ClientSampled :

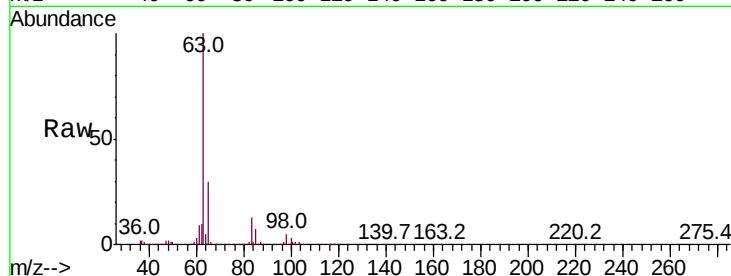
Tot Ion: 63 Resp: 1396481

Ion Ratio Lower Upper

63 100

98 4.5 2.0 5.8

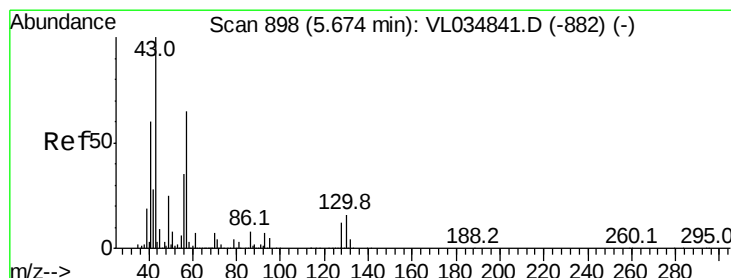
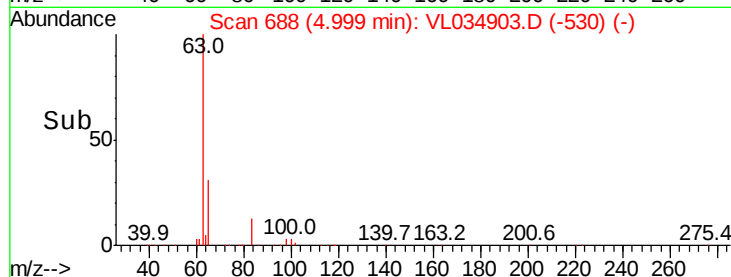
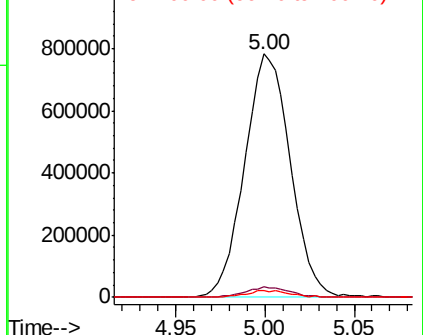
100 2.8 1.4 4.0



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



#26

Hexane

Concen: 0.190 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.01 min

Lab File: VL034903.D

Acq: 16 Mar 2020 23:22

Tgt Ion: 57 Resp: 17655

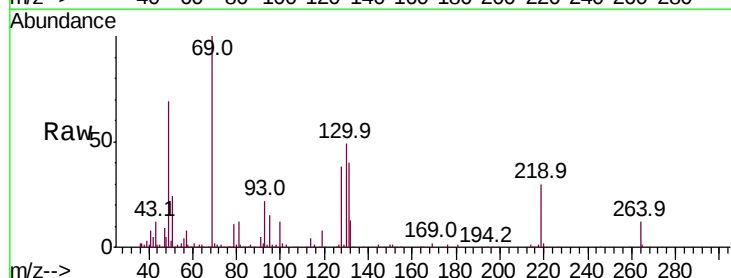
Ion Ratio Lower Upper

57 100

41 0.0 72.6 109.0#

43 0.0 183.8 275.6#

56 0.0 41.9 62.9#

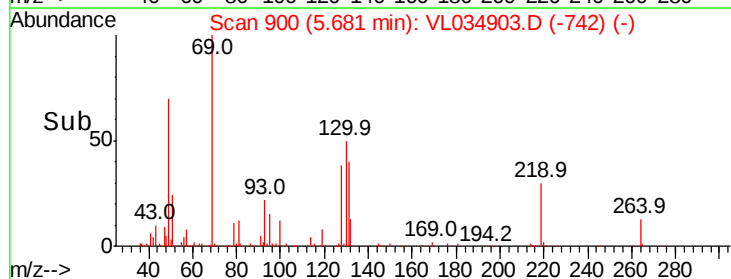
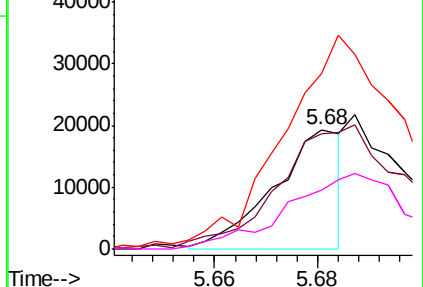


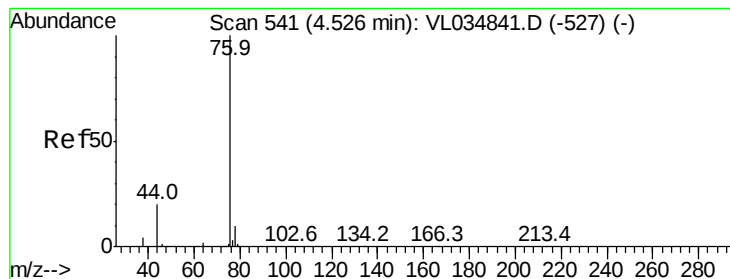
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.561 ppbv

RT: 4.53 min Scan# 541

Delta R.T. 0.00 min

Lab File: VL034903.D

Acq: 16 Mar 2020 23:22

Instrument :

MSVOA_L

ClientSampleId :

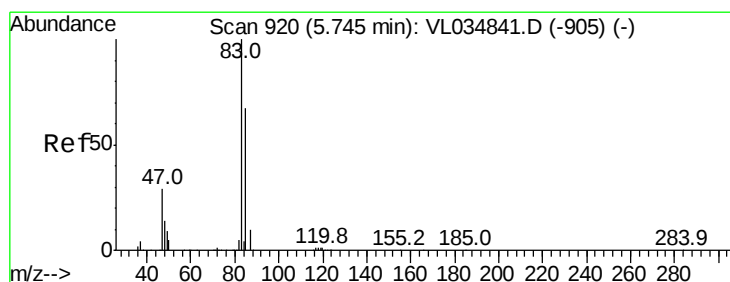
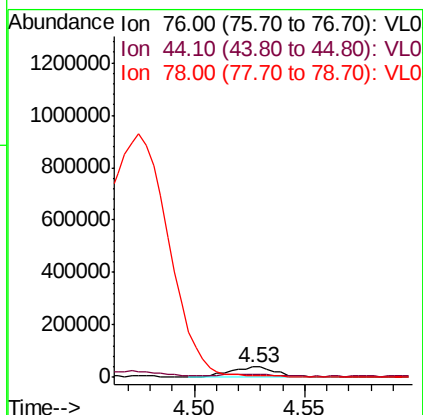
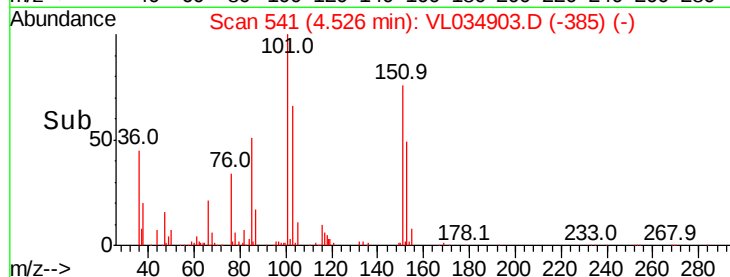
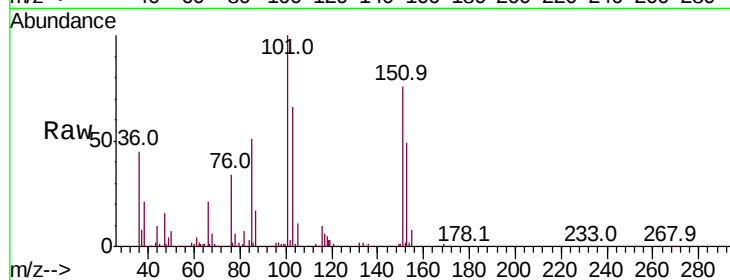
Tot Ion: 76 Resp: 59147

Ion Ratio Lower Upper

76 100

44 28.7 16.2 24.2#

78 0.0 7.8 11.6#



#29

Chloroform

Concen: 17.645 ppbv

RT: 5.75 min Scan# 922

Delta R.T. 0.01 min

Lab File: VL034903.D

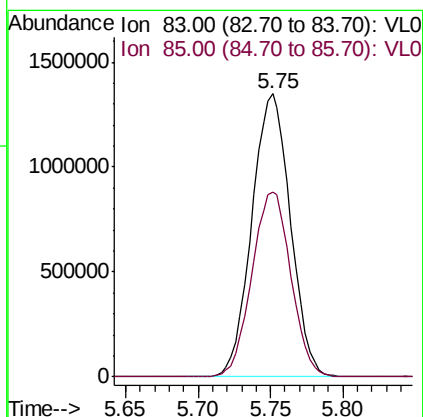
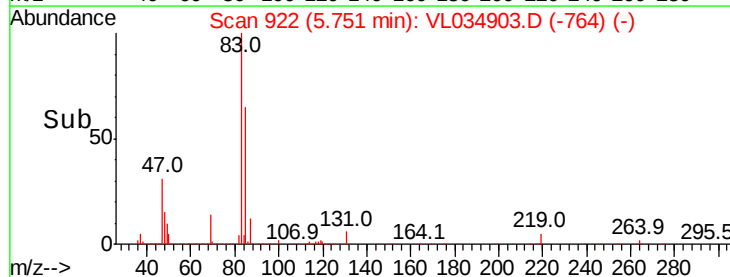
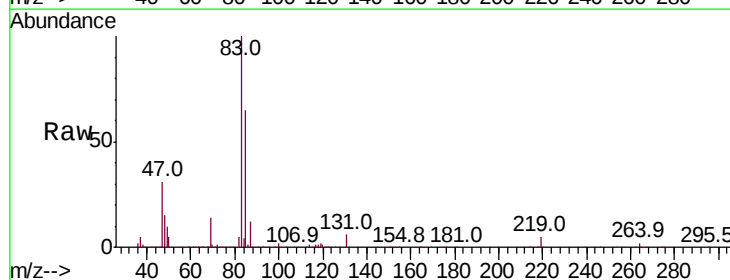
Acq: 16 Mar 2020 23:22

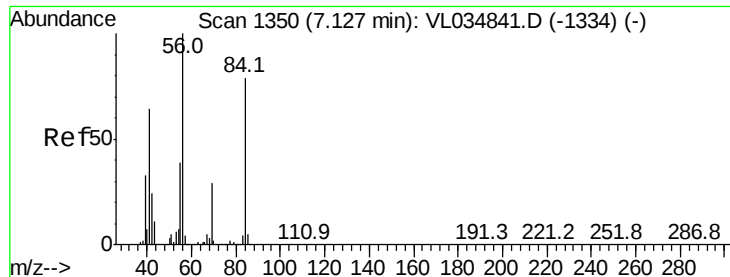
Tgt Ion: 83 Resp: 2501483

Ion Ratio Lower Upper

83 100

85 65.3 53.8 80.6

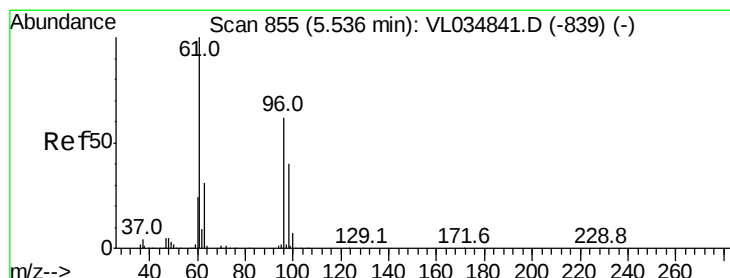
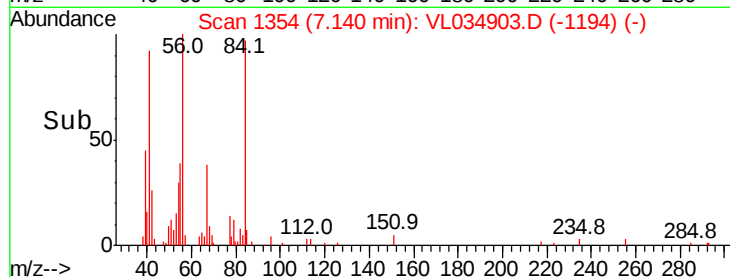
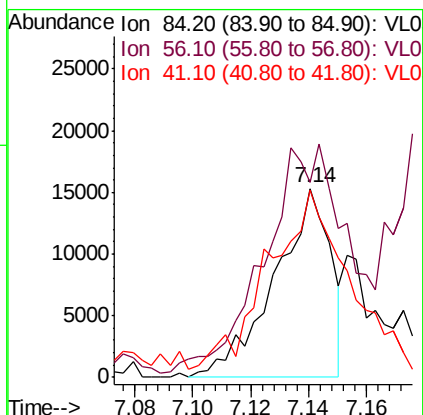
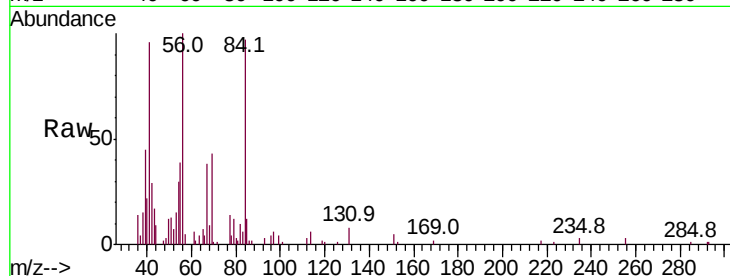




#30
Cvclohexane
Concen: 0.265 ppbv
RT: 7.14 min Scan# 1354
Delta R.T. 0.01 min
Lab File: VL034903.D
Acq: 16 Mar 2020 23:22

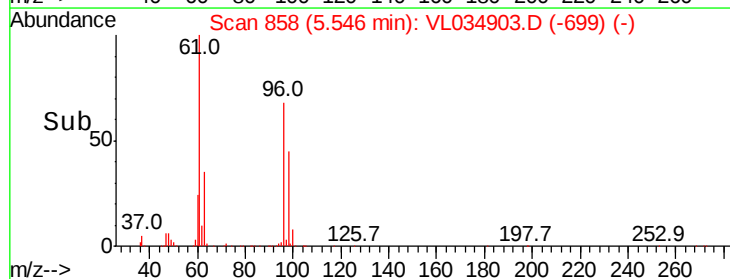
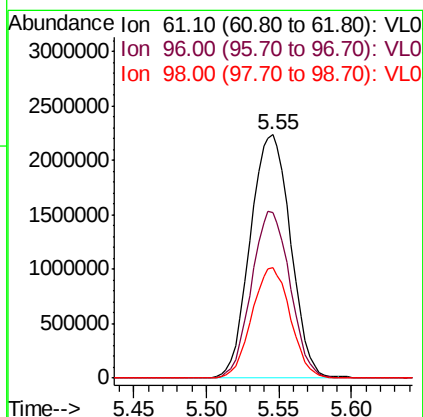
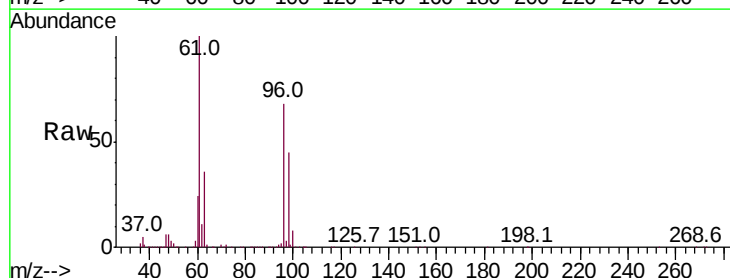
Instrument :
MSVOA_L
ClientSampled :

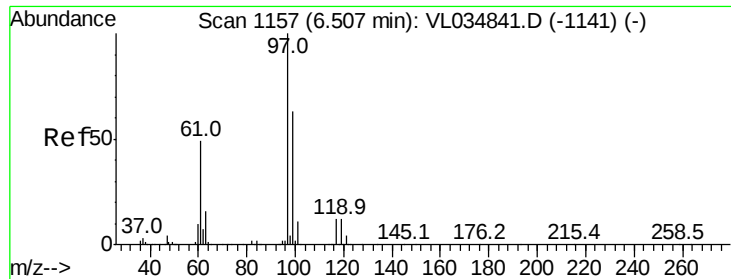
Tot Ion: 84 Resp: 20524
Ion Ratio Lower Upper
84 100
56 164.7 110.5 165.7
41 0.0 68.2 102.4#



#31
cis-1,2-Dichloroethene
Concen: 45.575 ppbv
RT: 5.55 min Scan# 858
Delta R.T. 0.01 min
Lab File: VL034903.D
Acq: 16 Mar 2020 23:22

Tgt Ion: 61 Resp: 4330691
Ion Ratio Lower Upper
61 100
96 68.1 49.8 74.8
98 45.1 32.2 48.4

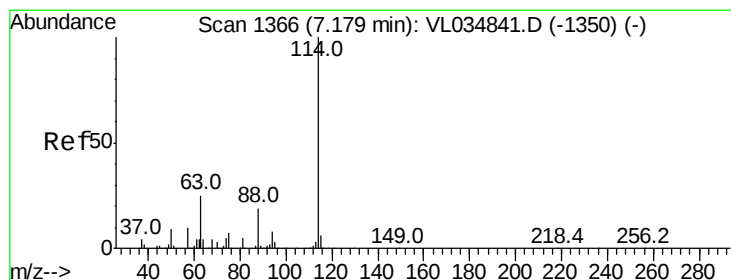
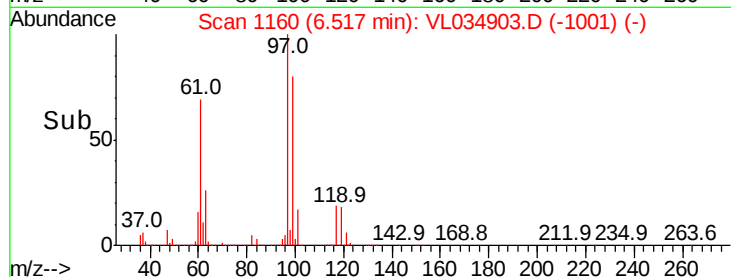
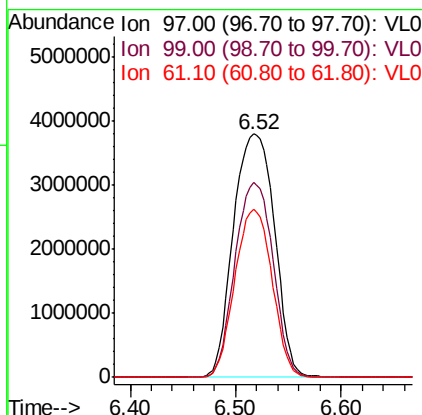
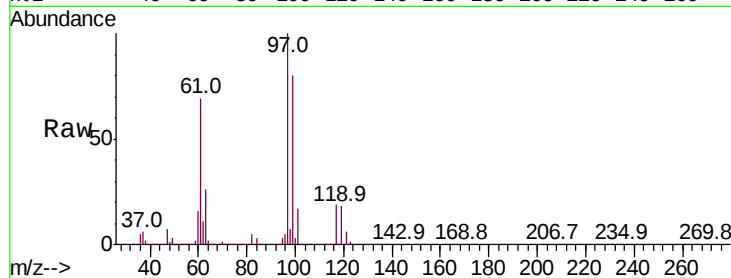




#32
 1,1,1-Trichloroethane
 Concen: 74.763 ppbv
 RT: 6.52 min Scan# 1160
 Delta R.T. 0.01 min
 Lab File: VL034903.D
 Acq: 16 Mar 2020 23:22

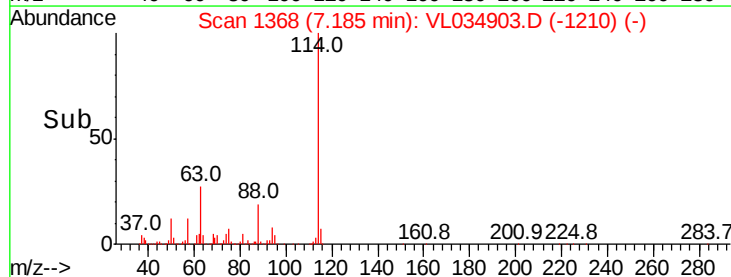
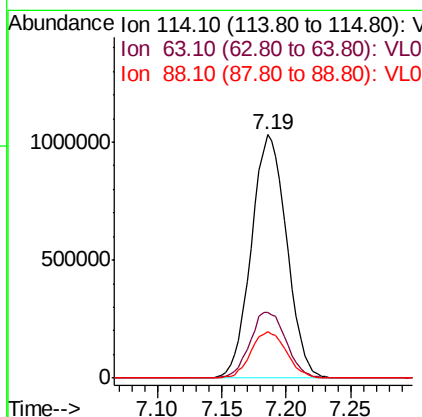
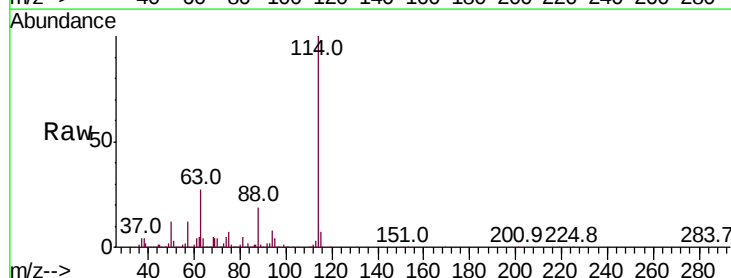
Instrument :
 MSVOA_L
 ClientSampled :

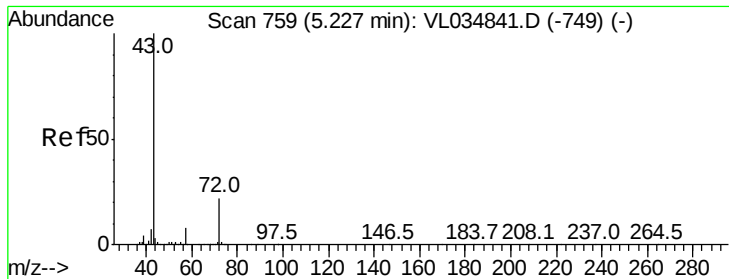
Tot Ion: 97 Resp:10327629
 Ion Ratio Lower Upper
 97 100
 99 74.4 51.1 76.7
 61 62.5 39.7 59.5#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. 0.01 min
 Lab File: VL034903.D
 Acq: 16 Mar 2020 23:22

Tgt Ion:114 Resp: 1974001
 Ion Ratio Lower Upper
 114 100
 63 27.6 20.6 31.0
 88 19.2 15.0 22.6

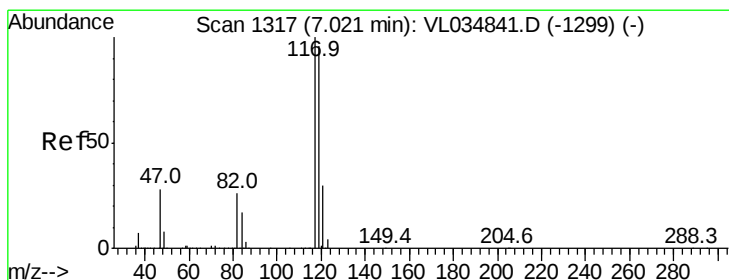
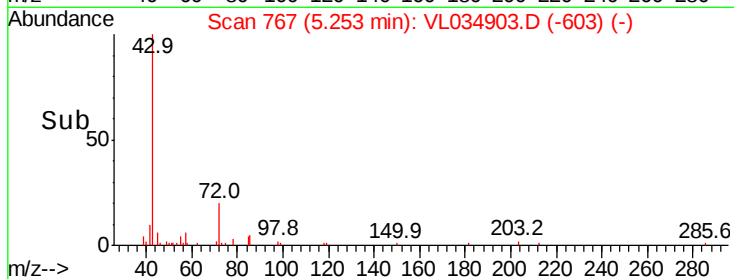
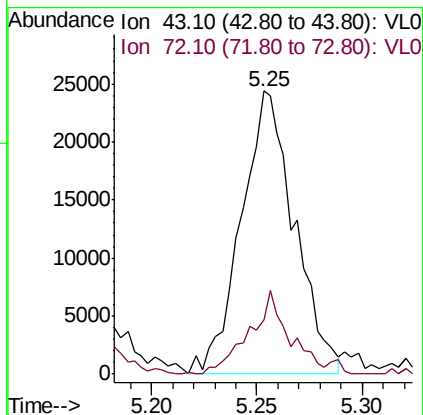
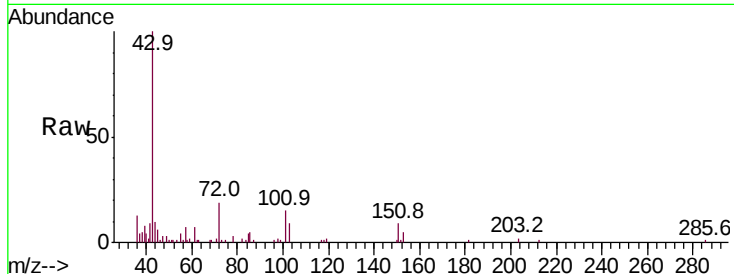




#34
2-Butanone
Concen: 0.327 ppbv
RT: 5.25 min Scan# 767
Delta R.T. 0.03 min
Lab File: VL034903.D
Acq: 16 Mar 2020 23:22

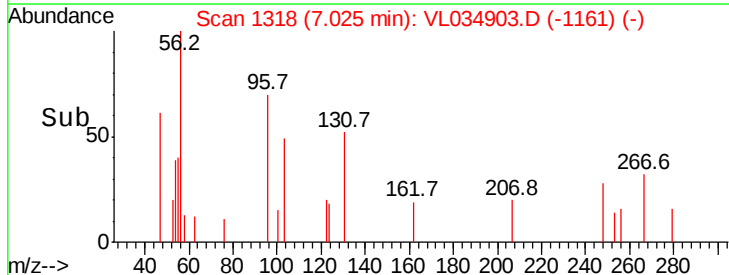
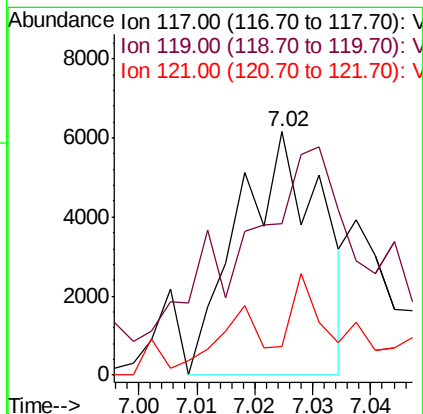
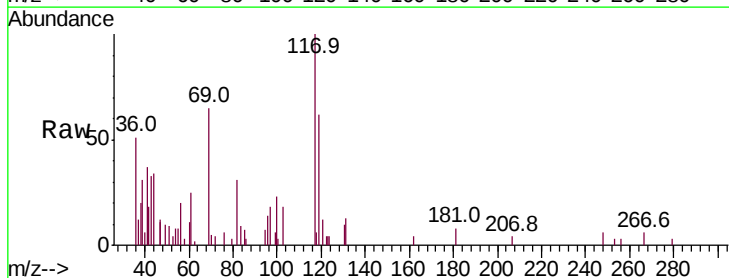
Instrument :
MSVOA_L
ClientSampled :

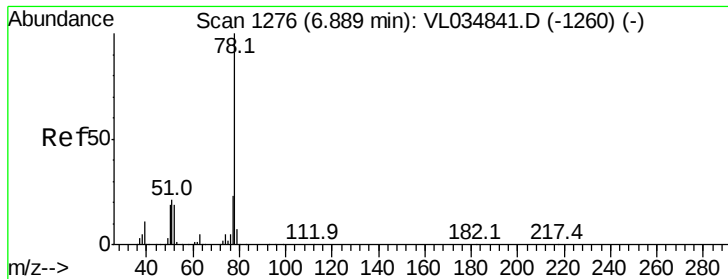
Tot Ion: 43 Resp: 42867
Ion Ratio Lower Upper
43 100
72 23.3 17.6 26.4



#35
Carbon Tetrachloride
Concen: 0.050 ppbv
RT: 7.02 min Scan# 1318
Delta R.T. 0.00 min
Lab File: VL034903.D
Acq: 16 Mar 2020 23:22

Tgt Ion: 117 Resp: 6112
Ion Ratio Lower Upper
117 100
119 32.9 77.0 115.4#
121 5.4 24.0 36.0#





#36

Benzene

Concen: 0.140 ppbv

RT: 6.91 min Scan# 1281

Delta R.T. 0.02 min

Lab File: VL034903.D

Acq: 16 Mar 2020 23:22

Instrument :

MSVOA_L

ClientSampleId :

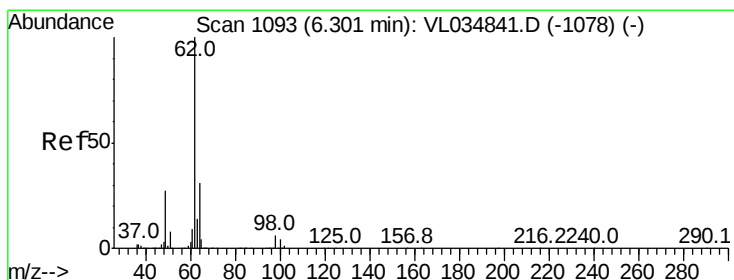
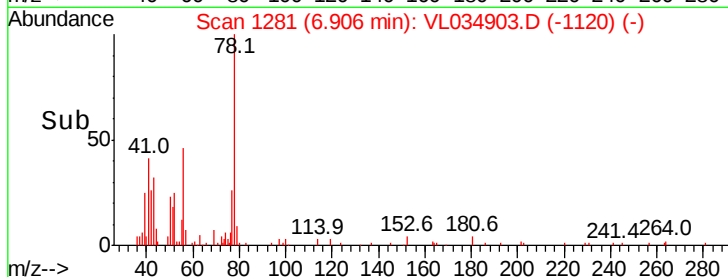
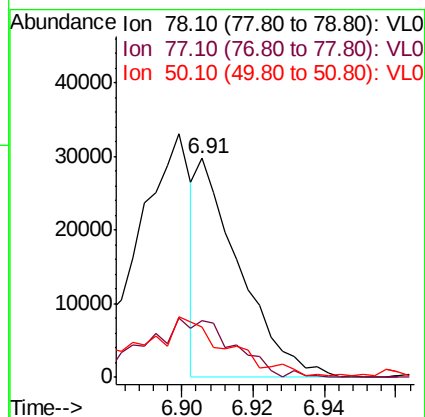
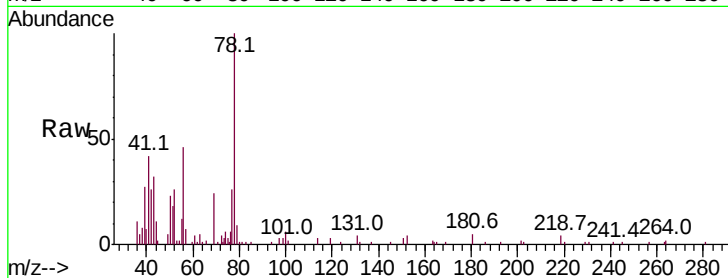
Tot Ion: 78 Resp: 24610

Ion Ratio Lower Upper

78 100

77 25.8 18.2 27.2

50 21.7 15.2 22.8



#37

1,2-Dichloroethane

Concen: 10.317 ppbv

RT: 6.51 min Scan# 1159

Delta R.T. 0.21 min

Lab File: VL034903.D

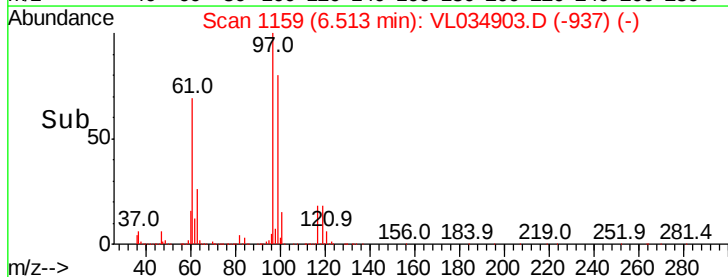
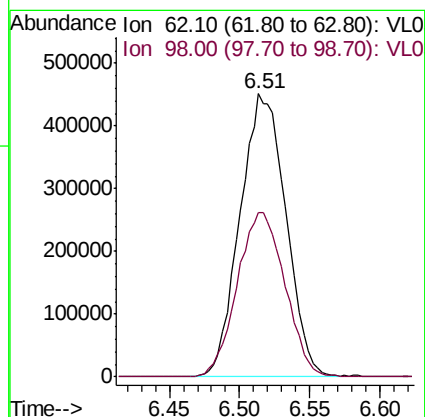
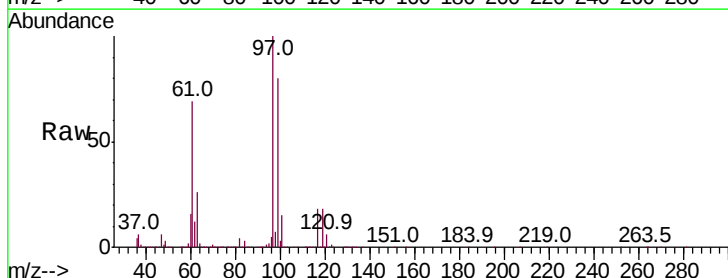
Acq: 16 Mar 2020 23:22

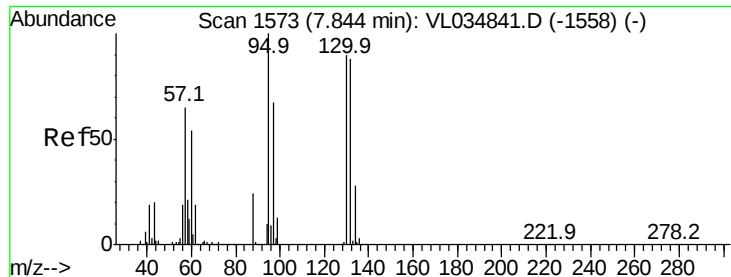
Tgt Ion: 62 Resp: 1023581

Ion Ratio Lower Upper

62 100

98 60.6 5.2 7.8#





#38

Trichloroethene

Concen: 198.129 ppbv

RT: 7.86 min Scan# 1579

Delta R.T. 0.02 min

Lab File: VL034903.D

Acq: 16 Mar 2020 23:22

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:130 Resp:13239925

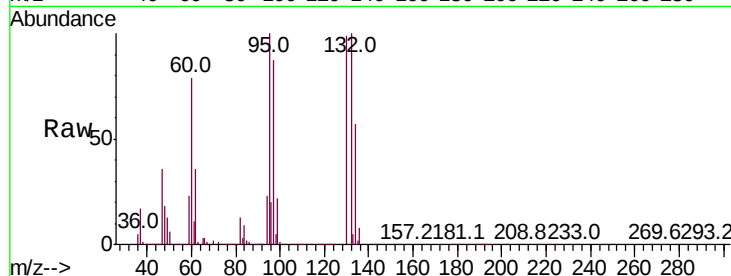
Ion Ratio Lower Upper

130 100

95 101.0 88.5 132.7

132 100.8 78.0 117.0

97 88.3 59.3 88.9

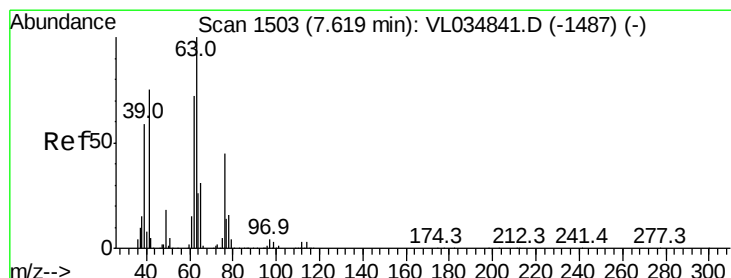
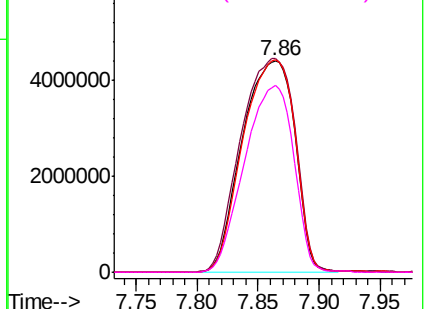
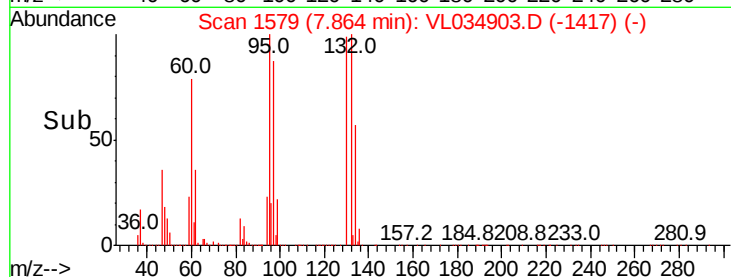


Abundance Ion 130.00 (129.70 to 130.70): V

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



#39

1,2-Dichloropropane

Concen: 1.329 ppbv

RT: 7.86 min Scan# 1577

Delta R.T. 0.24 min

Lab File: VL034903.D

Acq: 16 Mar 2020 23:22

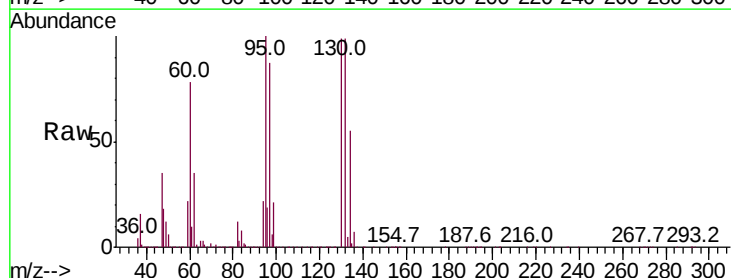
Tgt Ion: 63 Resp: 92661

Ion Ratio Lower Upper

63 100

41 10.9 59.8 89.8#

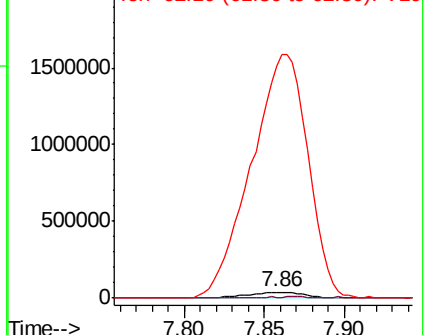
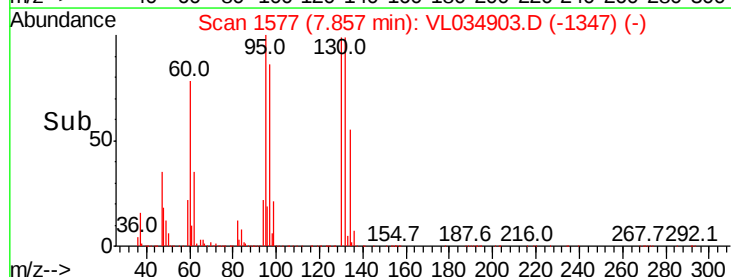
62 3966.4 57.6 86.4#

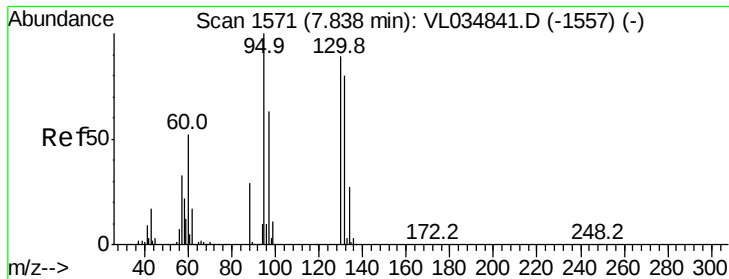


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

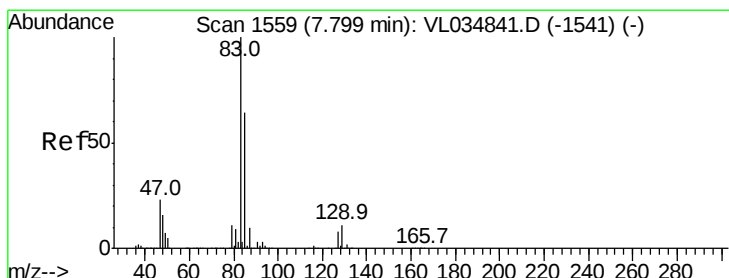
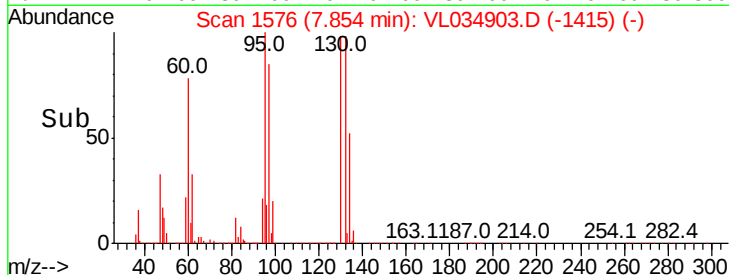
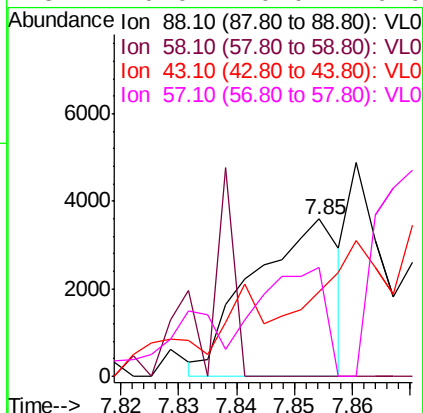
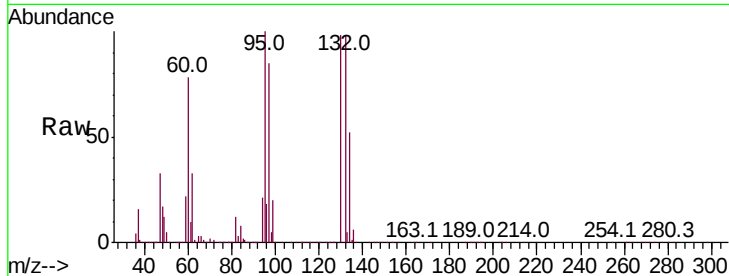




#40
1,4-Dioxane
Concen: 0.140 ppbv
RT: 7.85 min Scan# 1576
Delta R.T. 0.02 min
Lab File: VL034903.D
Acq: 16 Mar 2020 23:22

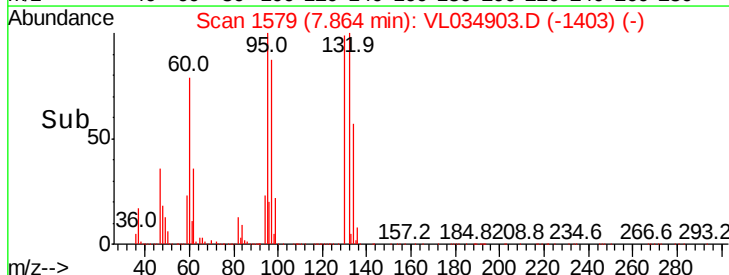
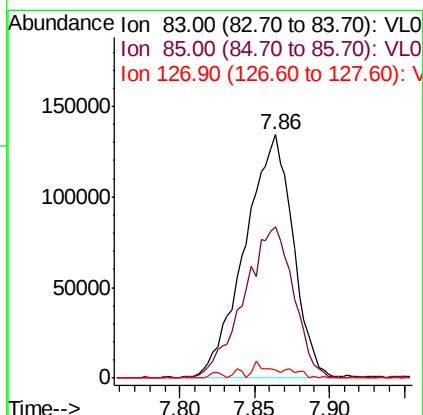
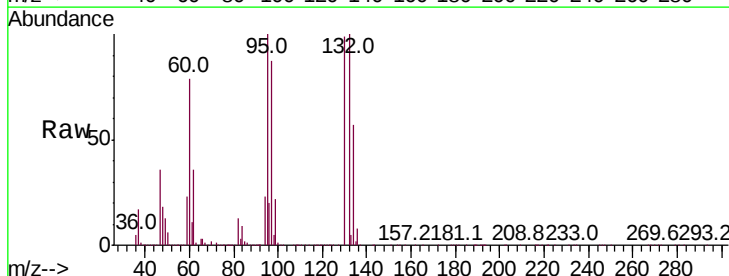
Instrument :
MSVOA_L
ClientSampleId :

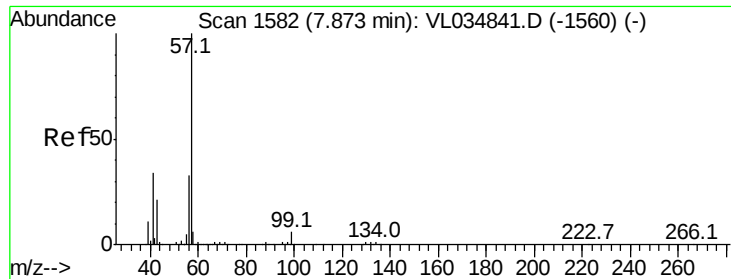
Tot Ion: 88 Resp: 3689
Ion Ratio Lower Upper
88 100
58 0.0 103.9 155.9#
43 0.0 0.0 0.0
57 0.0 0.0 0.0



#42
Bromodichloromethane
Concen: 2.204 ppbv
RT: 7.86 min Scan# 1579
Delta R.T. 0.06 min
Lab File: VL034903.D
Acq: 16 Mar 2020 23:22

Tgt Ion: 83 Resp: 298039
Ion Ratio Lower Upper
83 100
85 61.6 51.4 77.2
127 3.4 6.2 9.4#





#44

2,2,4-Trimethylpentane

Concen: 0.059 ppbv

RT: 7.89 min Scan# 1587

Delta R.T. 0.02 min

Lab File: VL034903.D

Acq: 16 Mar 2020 23:22

Instrument :

MSVOA_L

ClientSampleId :

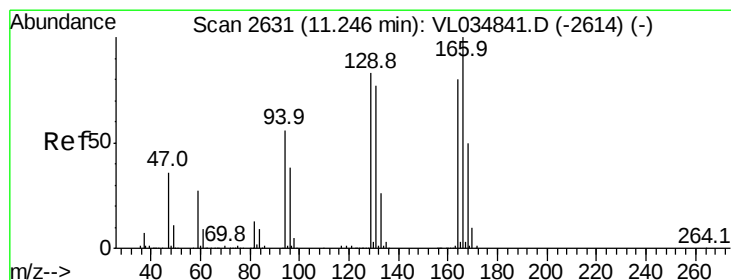
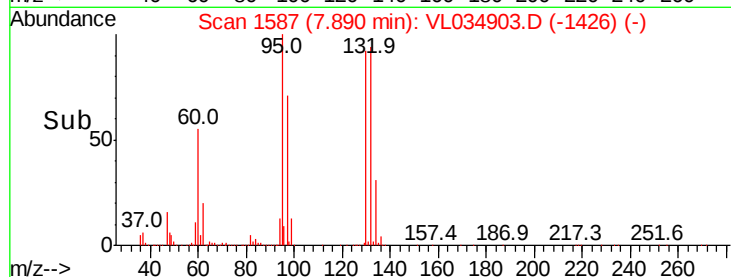
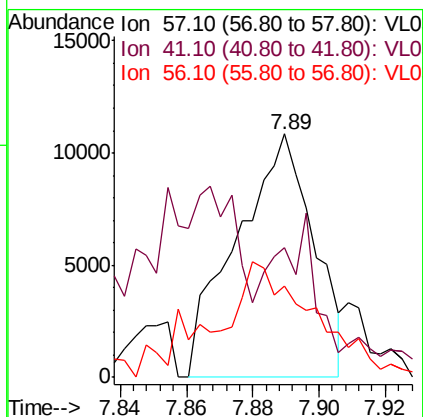
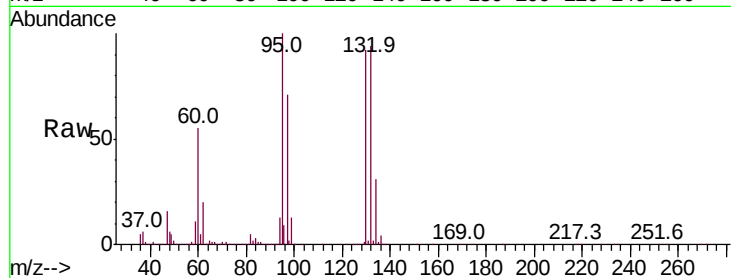
Tot Ion: 57 Resp: 17579

Ion Ratio Lower Upper

57 100

41 0.0 26.2 39.4#

56 63.3 25.0 37.4#



#52

Tetrachloroethene

Concen: 0.261 ppbv

RT: 11.24 min Scan# 2628

Delta R.T. -0.01 min

Lab File: VL034903.D

Acq: 16 Mar 2020 23:22

Tgt Ion:164 Resp: 18167

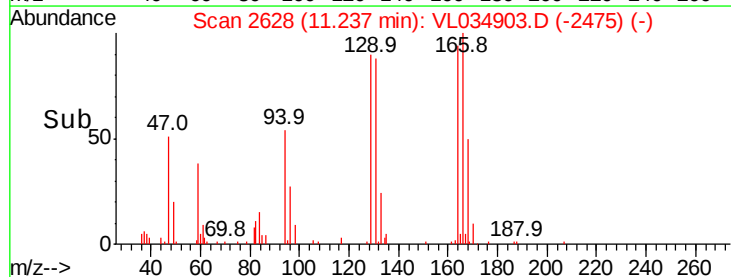
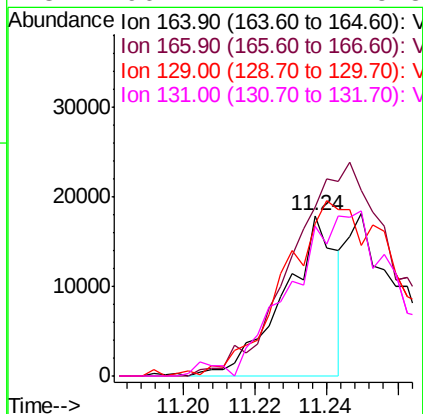
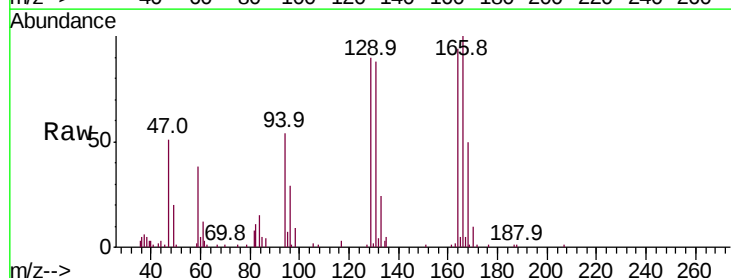
Ion Ratio Lower Upper

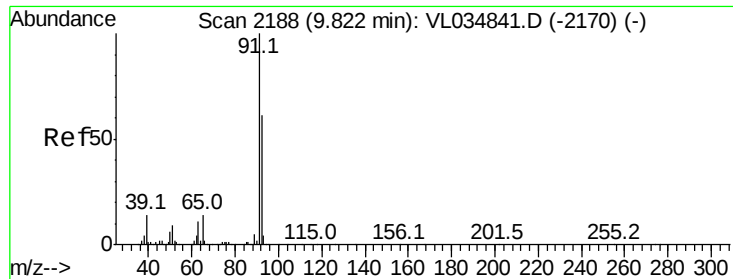
164 100

166 106.0 100.0 150.0

129 93.6 83.1 124.7

131 96.4 77.2 115.8





#53

Toluene

Concen: 0.161 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. 0.01 min

Lab File: VL034903.D

Acq: 16 Mar 2020 23:22

Instrument :

MSVOA_L

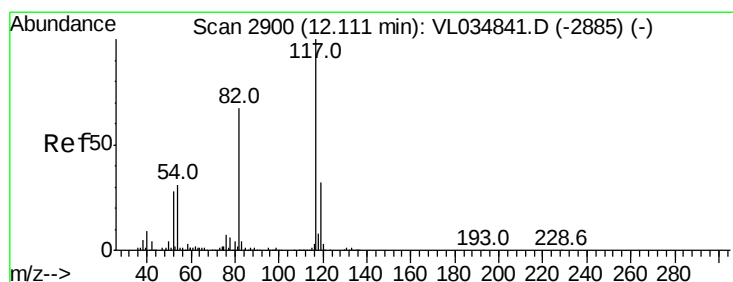
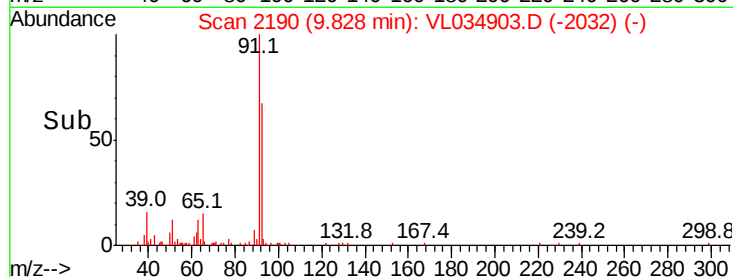
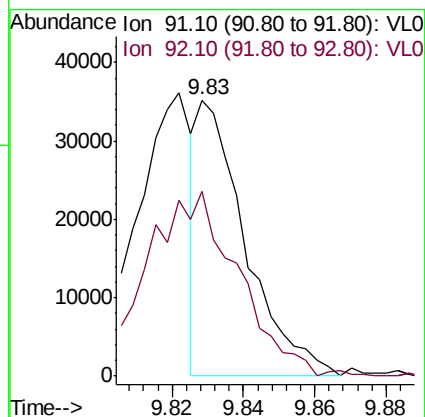
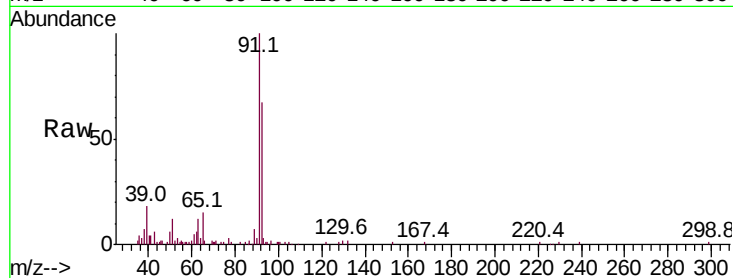
ClientSampled :

Tot Ion: 91 Resp: 32669

Ion Ratio Lower Upper

91 100

92 133.4 48.6 72.8#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2899

Delta R.T. -0.00 min

Lab File: VL034903.D

Acq: 16 Mar 2020 23:22

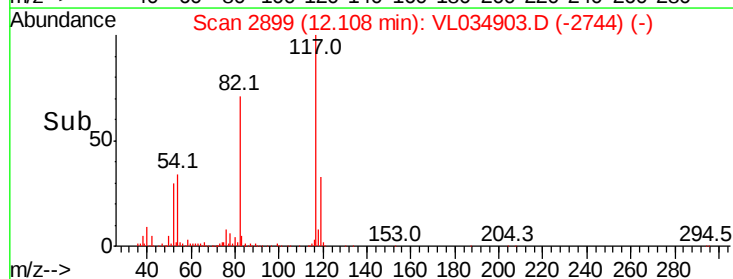
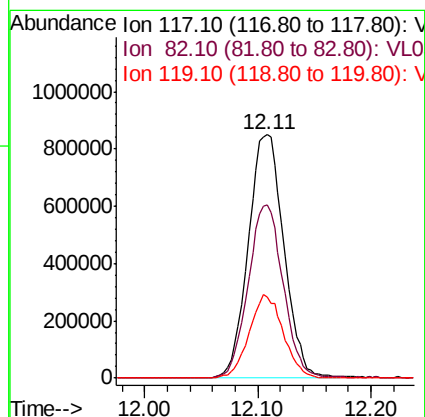
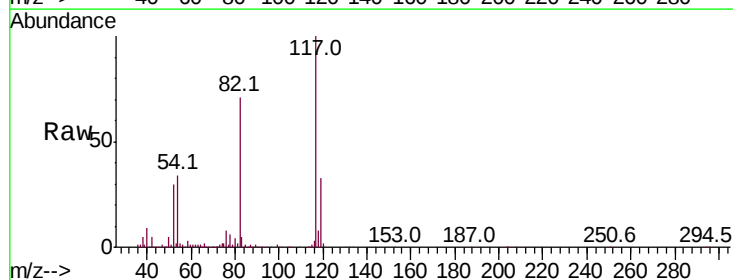
Tgt Ion: 117 Resp: 1863321

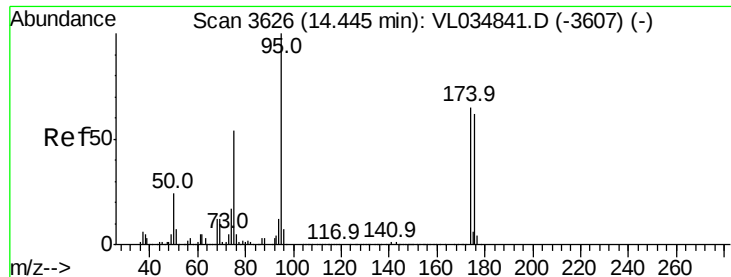
Ion Ratio Lower Upper

117 100

82 70.4 51.1 76.7

119 33.0 27.3 40.9





#68

1-Bromo-4-Fluorobenzene

Concen: 10.448 ppbv

RT: 14.44 min Scan# 3624

Delta R.T. -0.01 min

Lab File: VL034903.D

Acq: 16 Mar 2020 23:22

Instrument :

MSVOA_L

ClientSampleId :

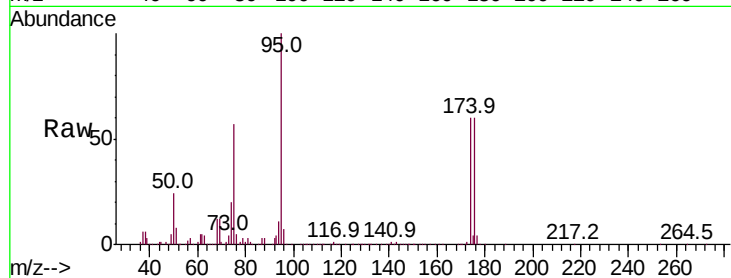
Tot Ion: 95 Resp: 1518292

Ion Ratio Lower Upper

95 100

174 63.9 55.2 82.8

175 4.7 4.3 6.5



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

