

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031620\
 Data File : VL034905.D
 Acq On : 17 Mar 2020 00:38
 Operator : SY/AP
 Sample : L1924-06DL2 60X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 17 04:28:57 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	5.65	49	854882	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	1806206	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	1762654	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1427070	10.38	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.80%

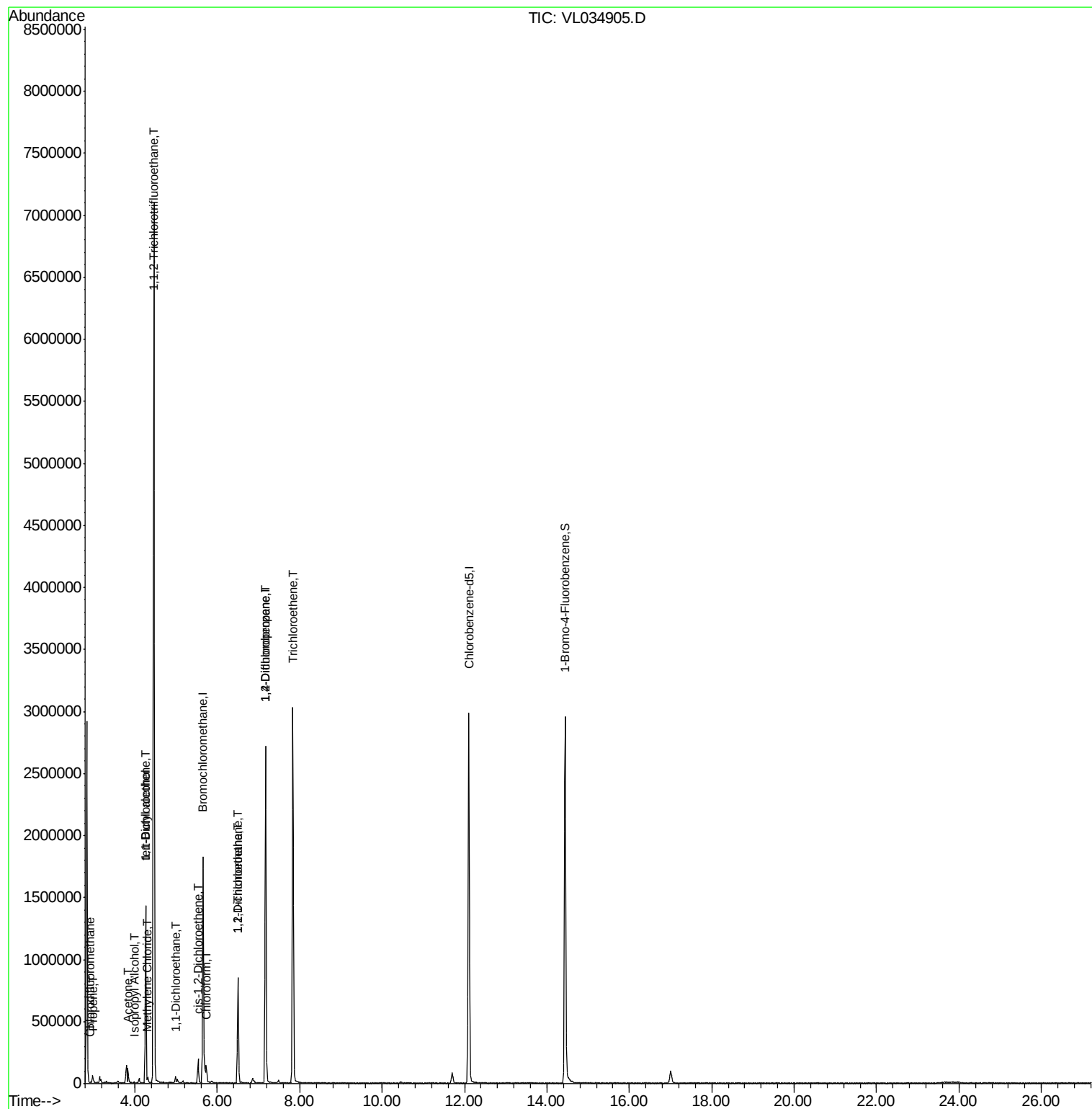
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.92	51	5949	0.062	ppbv #	72
9) Propene	2.98	41	3962	0.087	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.46	101	2474546	28.389	ppbv	99
15) Acetone	3.83	43	120535	1.088	ppbv	98
17) tert-Butyl alcohol	4.26	59	27793	0.260	ppbv #	74
18) 1,1-Dichloroethene	4.26	96	385258	9.981	ppbv	98
19) Isopropyl Alcohol	3.97	45	7744	0.111	ppbv #	37
20) Methylene Chloride	4.31	84	8459	0.241	ppbv #	76
24) 1,1-Dichloroethane	4.99	63	36153	0.329	ppbv	99
29) Chloroform	5.74	83	69752	0.538	ppbv	98
31) cis-1,2-Dichloroethene	5.53	61	104055	1.197	ppbv	96
32) 1,1,1-Trichloroethane	6.50	97	504358	3.991	ppbv	97
37) 1,2-Dichloroethane	6.50	62	22907	0.252	ppbv #	1
38) Trichloroethene	7.83	130	885393	14.480	ppbv	95
39) 1,2-Dichloropropane	7.17	63	496710	7.787	ppbv #	23

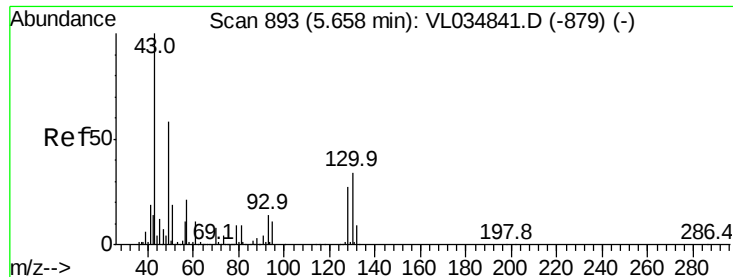
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
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QLast Update : Mon Mar 09 16:42:53 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.01 min

Lab File: VL034905.D

Acq: 17 Mar 2020 00:38

Instrument :

MSVOA_L

ClientSampleId :

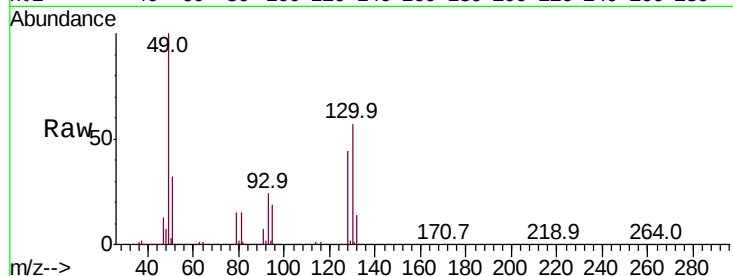
Tot Ion: 49 Resp: 854882

Ion Ratio Lower Upper

49 100

128 44.8 23.4 70.3

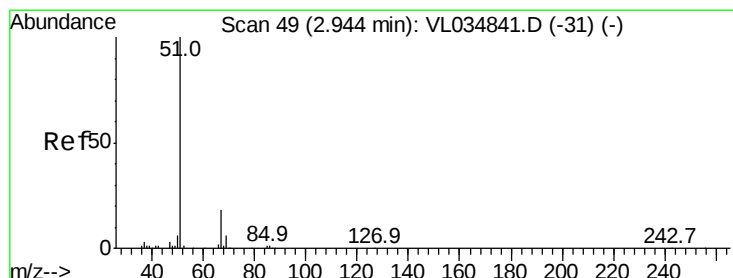
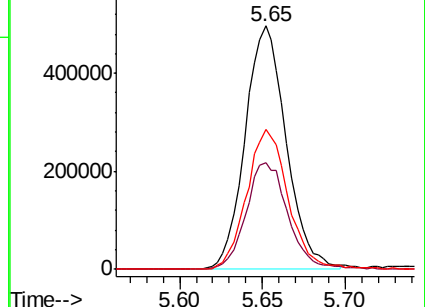
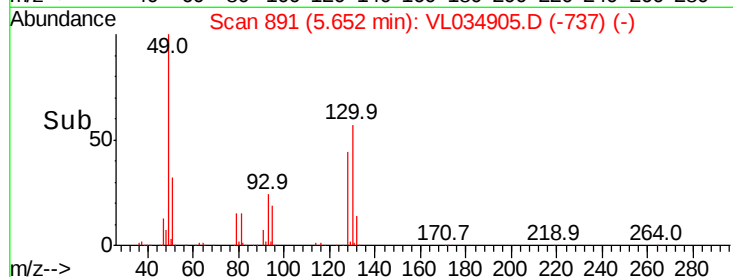
130 58.3 30.0 90.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.062 ppbv

RT: 2.92 min Scan# 41

Delta R.T. -0.03 min

Lab File: VL034905.D

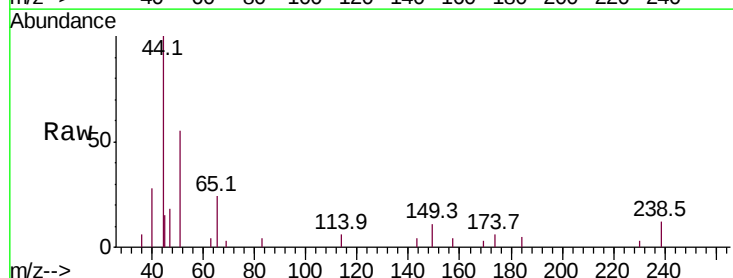
Acq: 17 Mar 2020 00:38

Tgt Ion: 51 Resp: 5949

Ion Ratio Lower Upper

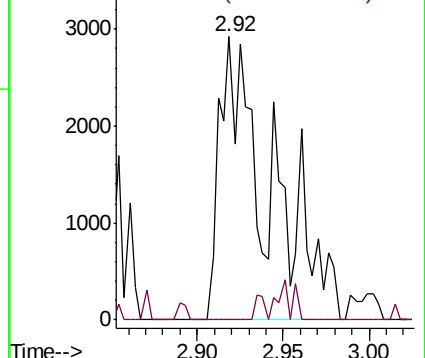
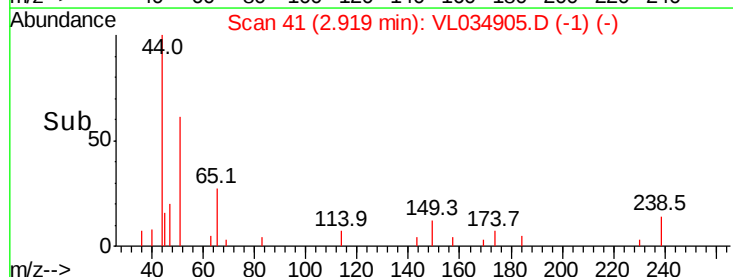
51 100

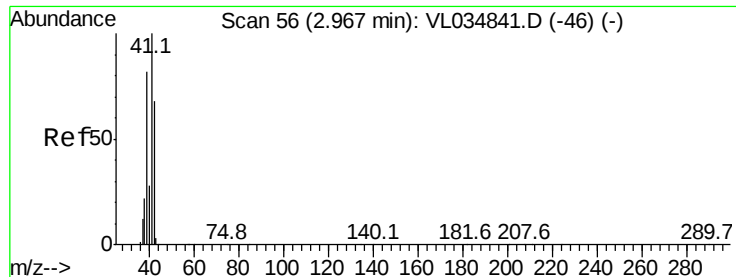
67 5.5 14.3 21.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.087 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.02 min

Lab File: VL034905.D

Acq: 17 Mar 2020 00:38

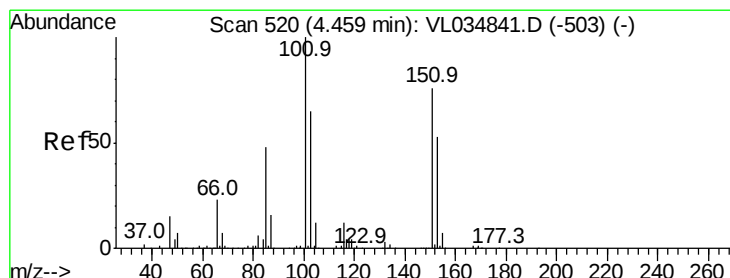
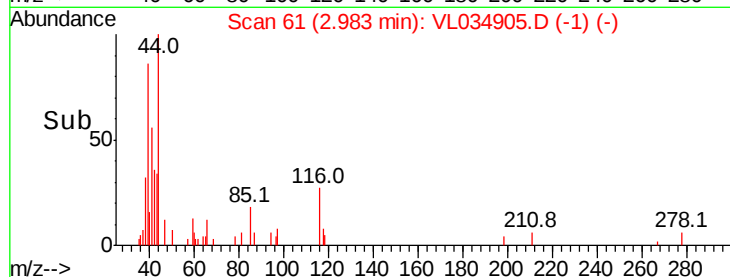
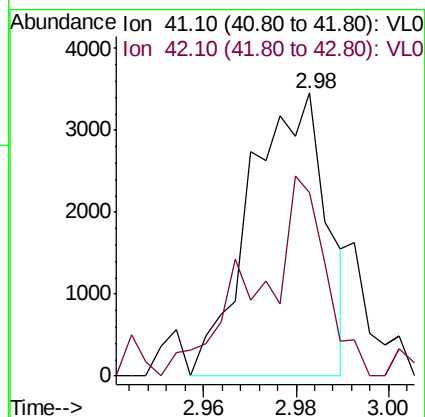
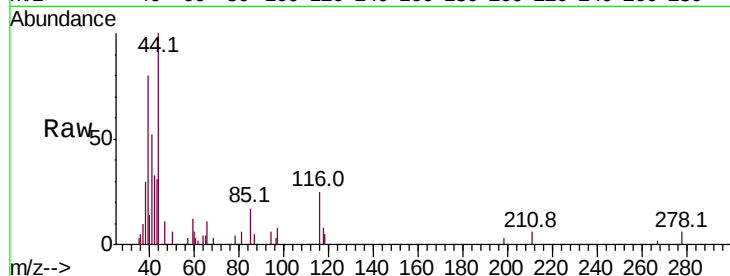
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 41 Resp: 3962

Ion Ratio Lower Upper

41 100

42 70.6 55.2 82.8



#12

1,1,2-Trichlorotrifluoroethane

Concen: 28.389 ppbv

RT: 4.46 min Scan# 519

Delta R.T. -0.00 min

Lab File: VL034905.D

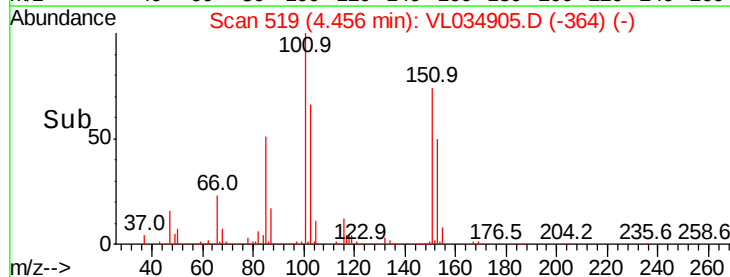
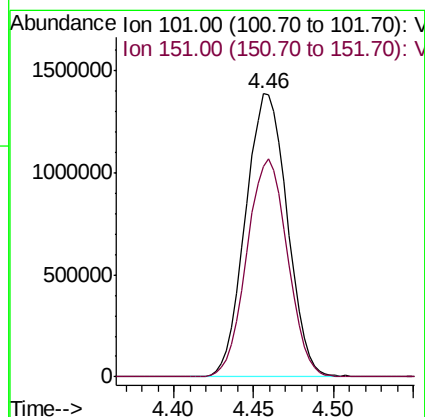
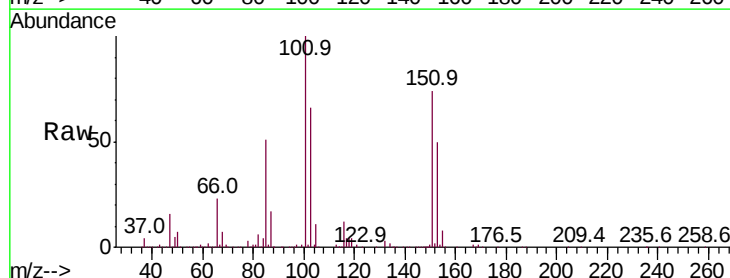
Acq: 17 Mar 2020 00:38

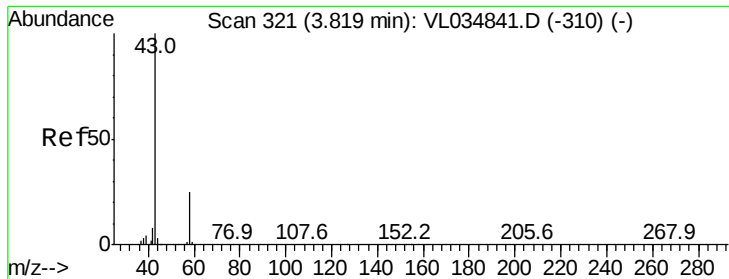
Tgt Ion: 101 Resp: 2474546

Ion Ratio Lower Upper

101 100

151 75.4 60.8 91.2





#15

Acetone

Concen: 1.088 ppbv

RT: 3.83 min Scan# 324

Delta R.T. 0.01 min

Lab File: VL034905.D

Acq: 17 Mar 2020 00:38

Instrument :

MSVOA_L

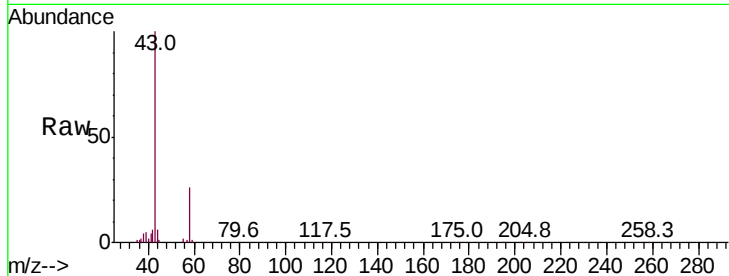
ClientSampleId :

Tot Ion: 43 Resp: 120535

Ion Ratio Lower Upper

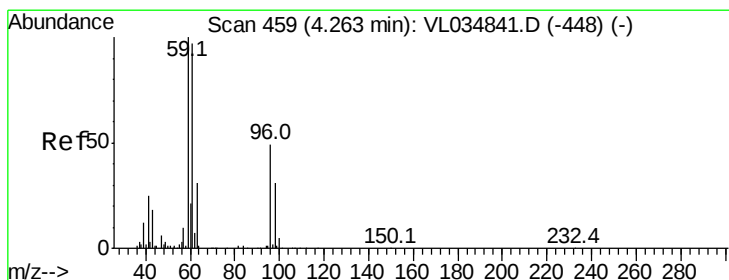
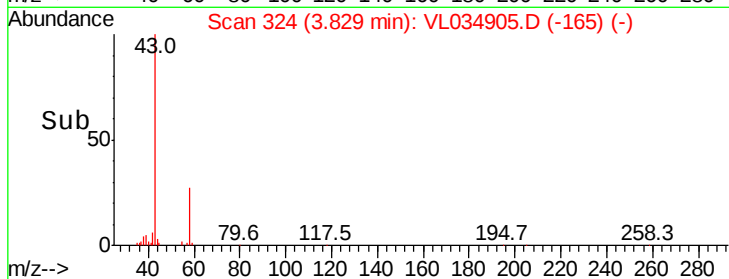
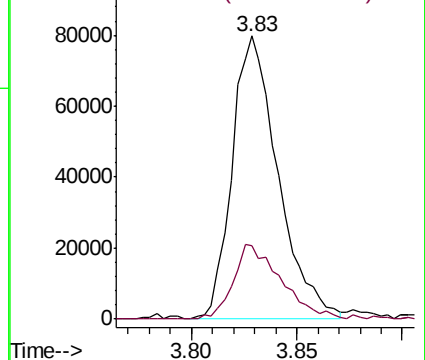
43 100

58 27.5 21.0 31.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 0.260 ppbv

RT: 4.26 min Scan# 458

Delta R.T. -0.00 min

Lab File: VL034905.D

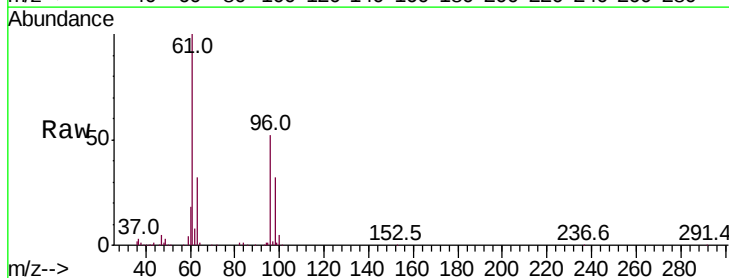
Acq: 17 Mar 2020 00:38

Tgt Ion: 59 Resp: 27793

Ion Ratio Lower Upper

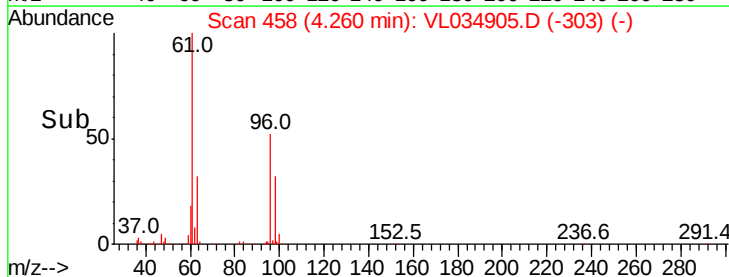
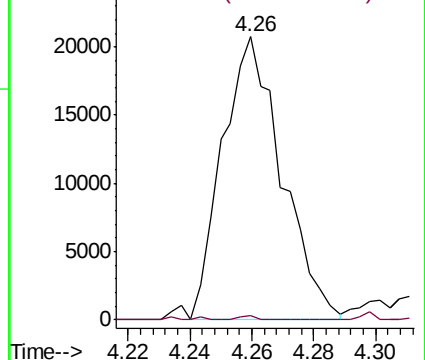
59 100

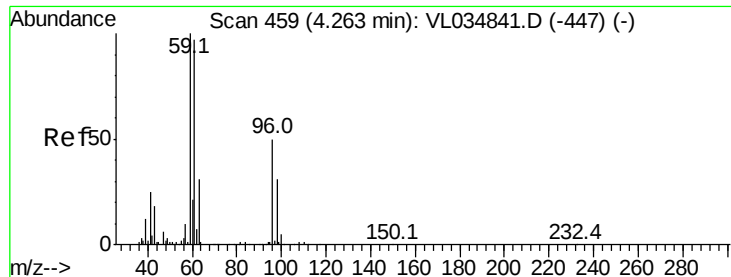
57 0.5 8.3 12.5#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#18

1,1-Dichloroethene

Concen: 9.981 ppbv

RT: 4.26 min Scan# 458

Delta R.T. -0.00 min

Lab File: VL034905.D

Acq: 17 Mar 2020 00:38

Instrument :
MSVOA_L
ClientSampleId :

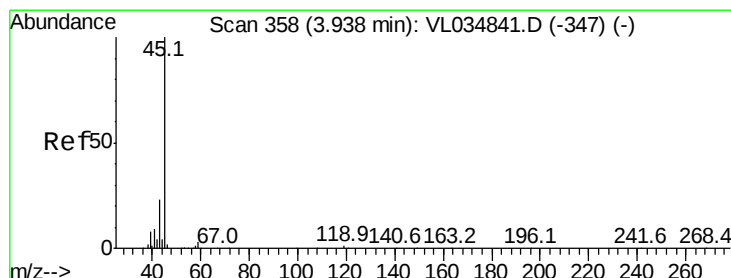
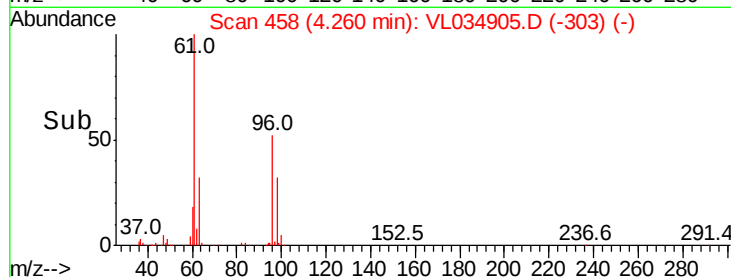
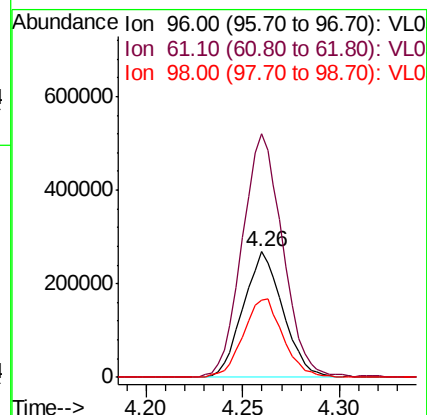
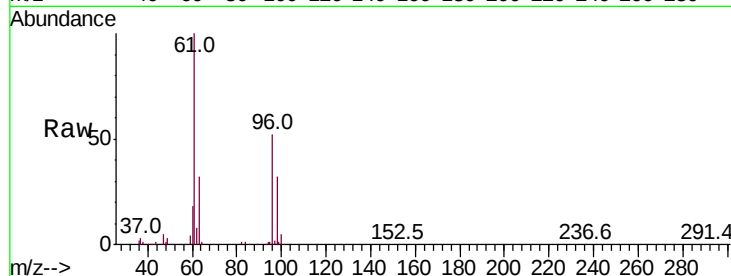
Tot Ion: 96 Resp: 385258

Ion Ratio Lower Upper

96 100

61 193.9 157.3 235.9

98 62.0 50.2 75.4



#19

Isopropyl Alcohol

Concen: 0.111 ppbv

RT: 3.97 min Scan# 368

Delta R.T. 0.03 min

Lab File: VL034905.D

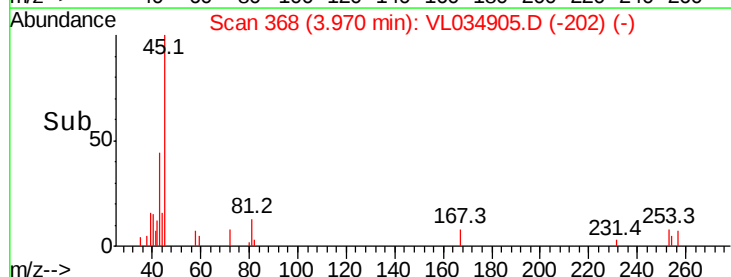
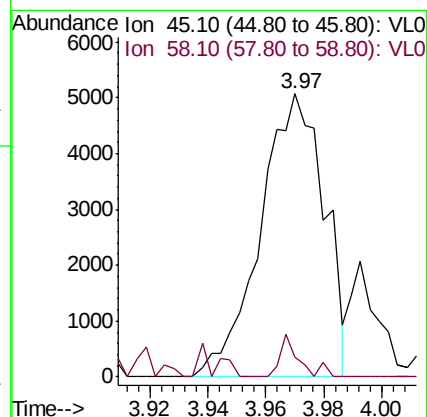
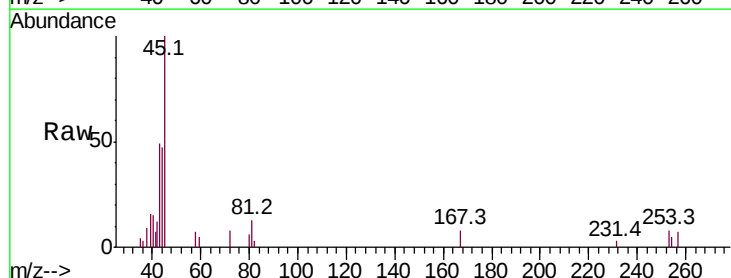
Acq: 17 Mar 2020 00:38

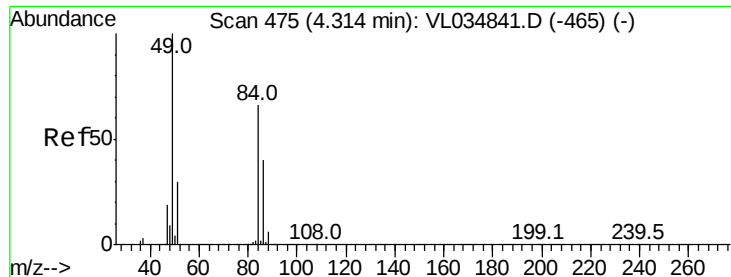
Tgt Ion: 45 Resp: 7744

Ion Ratio Lower Upper

45 100

58 0.0 30.5 45.7#

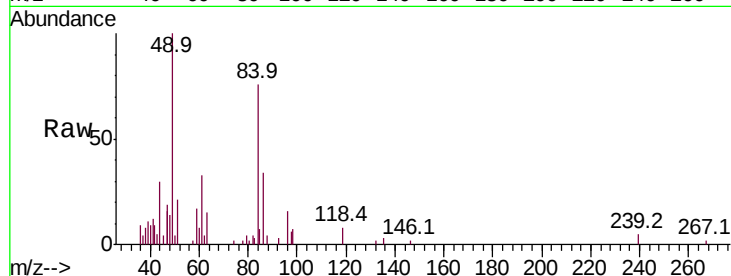




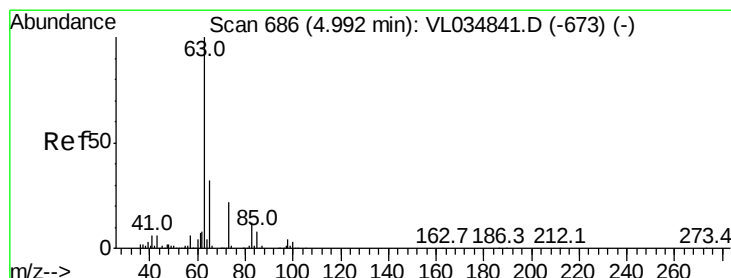
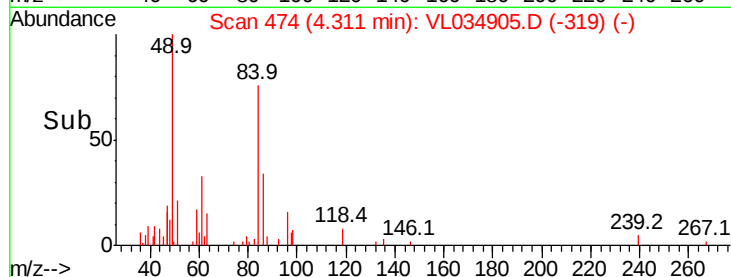
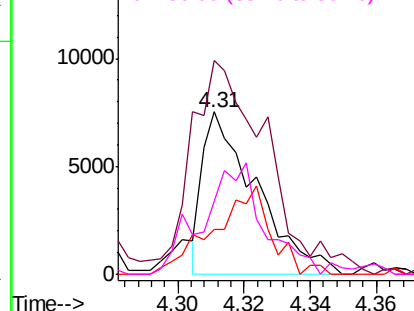
#20
Methylene Chloride
Concen: 0.241 ppbv
RT: 4.31 min Scan# 474
Delta R.T. -0.00 min
Lab File: VL034905.D
Acq: 17 Mar 2020 00:38

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 84 Resp: 8459
Ion Ratio Lower Upper
84 100
49 124.1 121.5 182.3
51 28.0 36.6 55.0#
86 41.0 48.2 72.2#

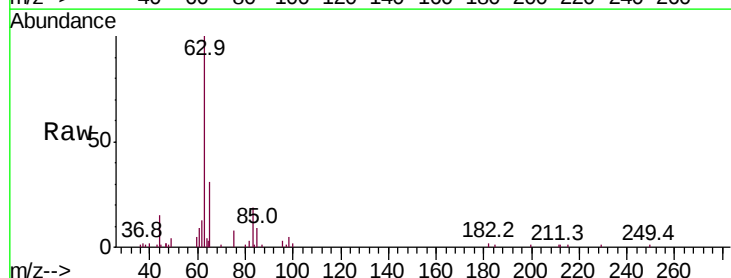


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

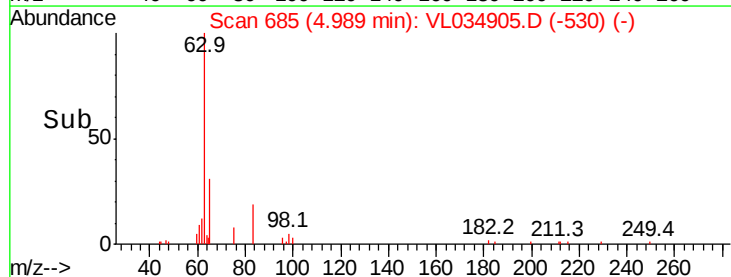
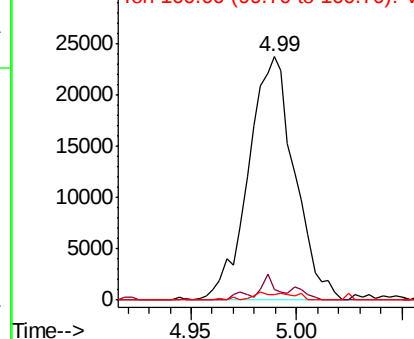


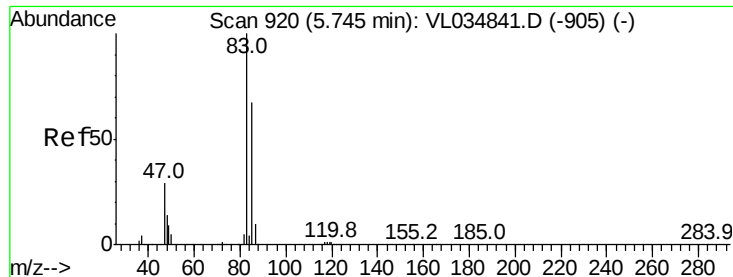
#24
1,1-Dichloroethane
Concen: 0.329 ppbv
RT: 4.99 min Scan# 685
Delta R.T. -0.00 min
Lab File: VL034905.D
Acq: 17 Mar 2020 00:38

Tgt Ion: 63 Resp: 36153
Ion Ratio Lower Upper
63 100
98 4.3 2.0 5.8
100 2.4 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

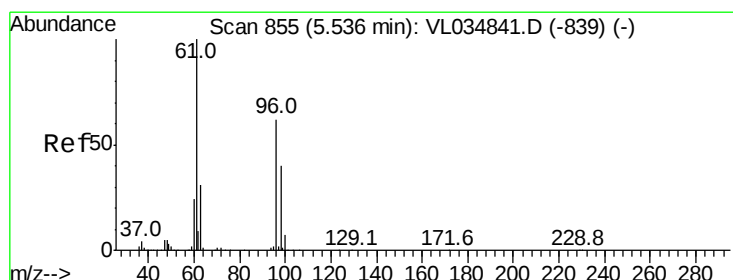
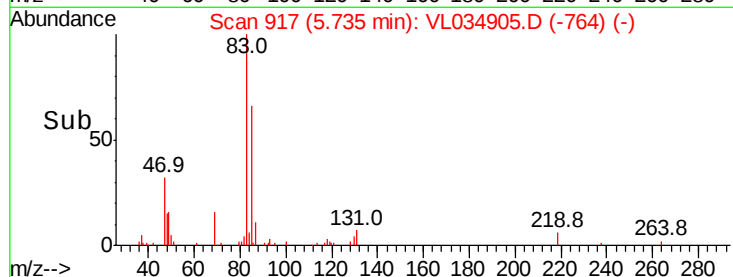
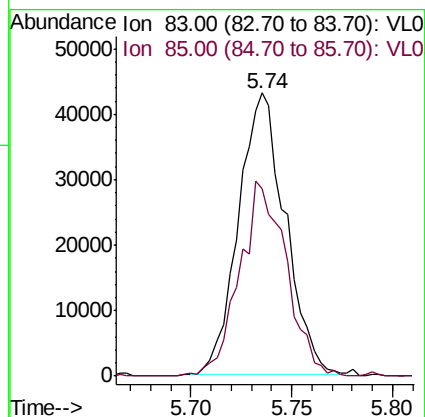
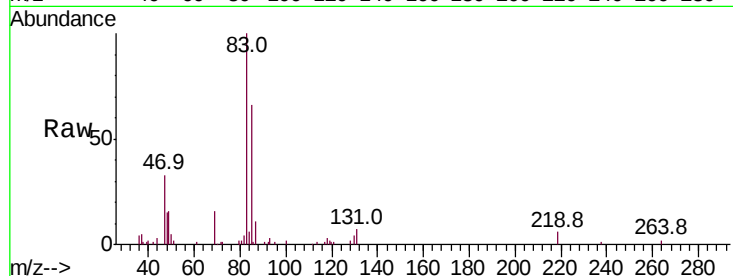




#29
Chloroform
Concen: 0.538 ppbv
RT: 5.74 min Scan# 917
Delta R.T. -0.01 min
Lab File: VL034905.D
Acq: 17 Mar 2020 00:38

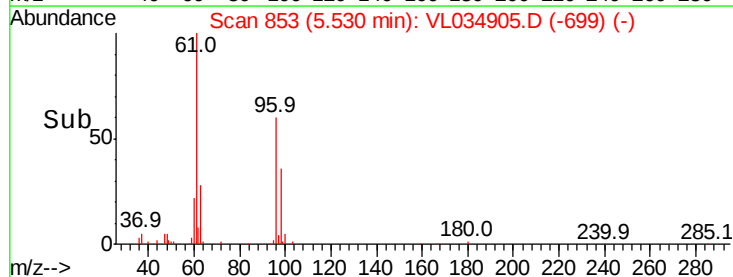
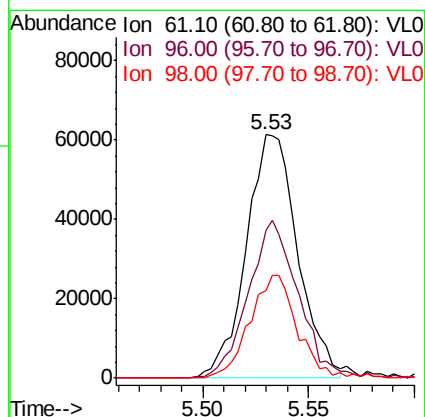
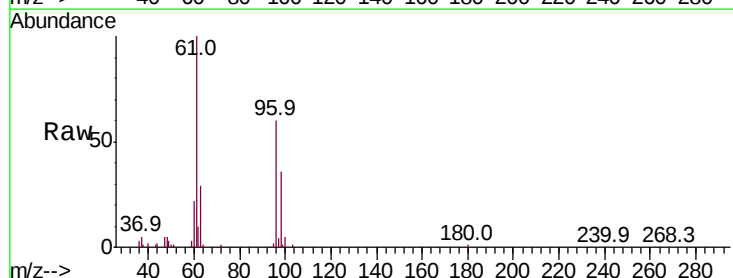
Instrument :
MSVOA_L
ClientSampleId :

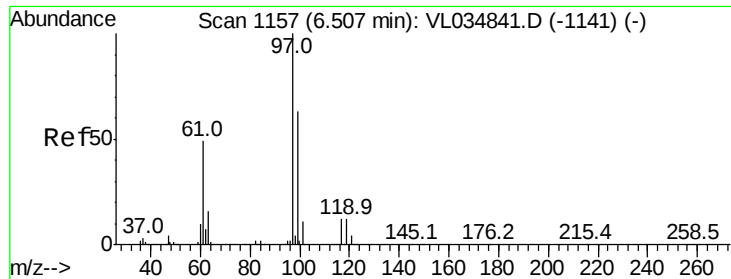
Tot Ion: 83 Resp: 69752
Ion Ratio Lower Upper
83 100
85 65.7 53.8 80.6



#31
cis-1,2-Dichloroethene
Concen: 1.197 ppbv
RT: 5.53 min Scan# 853
Delta R.T. -0.01 min
Lab File: VL034905.D
Acq: 17 Mar 2020 00:38

Tgt Ion: 61 Resp: 104055
Ion Ratio Lower Upper
61 100
96 60.5 49.8 74.8
98 35.8 32.2 48.4





#32

1,1,1-Trichloroethane

Concen: 3.991 ppbv

RT: 6.50 min Scan# 1156

Delta R.T. -0.00 min

Lab File: VL034905.D

Acq: 17 Mar 2020 00:38

Instrument :

MSVOA_L

ClientSampleId :

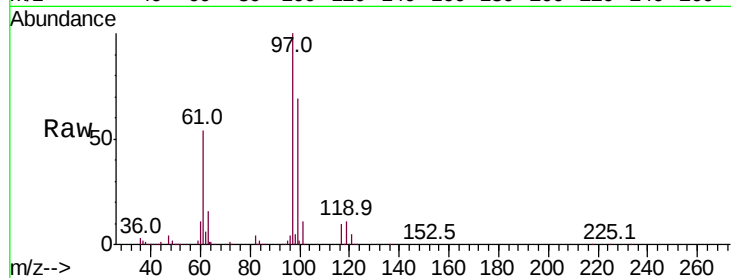
Tot Ion: 97 Resp: 504358

Ion Ratio Lower Upper

97 100

99 64.6 51.1 76.7

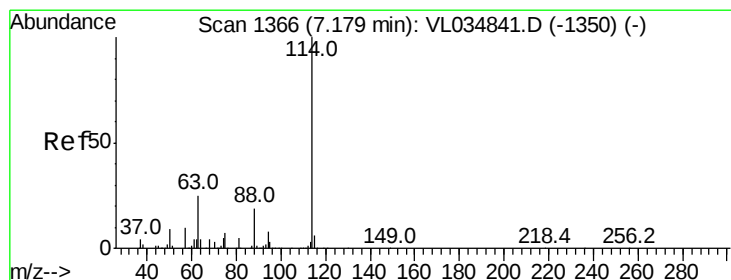
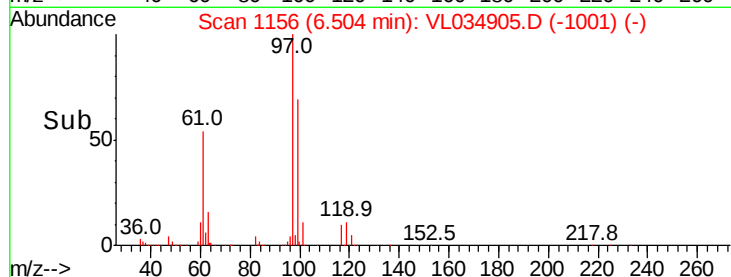
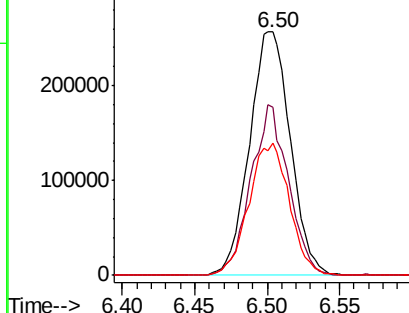
61 54.0 39.7 59.5



Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.01 min

Lab File: VL034905.D

Acq: 17 Mar 2020 00:38

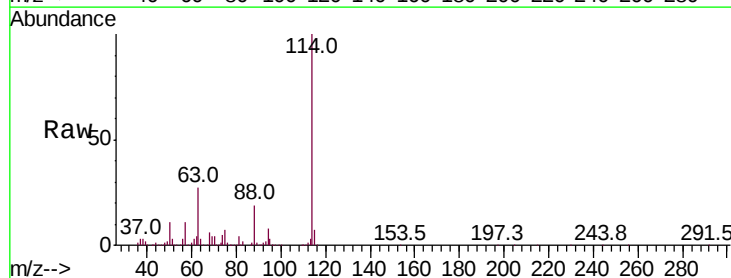
Tgt Ion: 114 Resp: 1806206

Ion Ratio Lower Upper

114 100

63 27.6 20.6 31.0

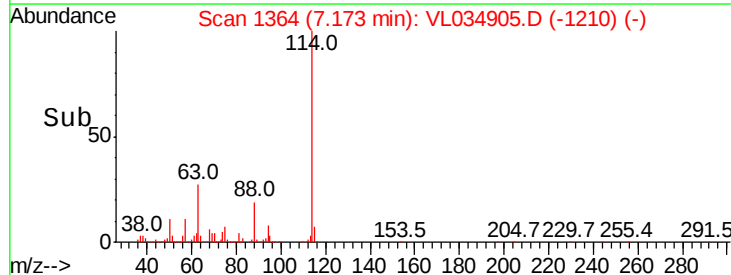
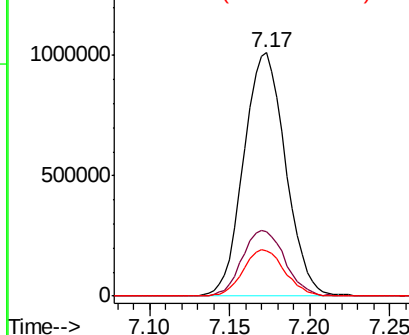
88 19.1 15.0 22.6

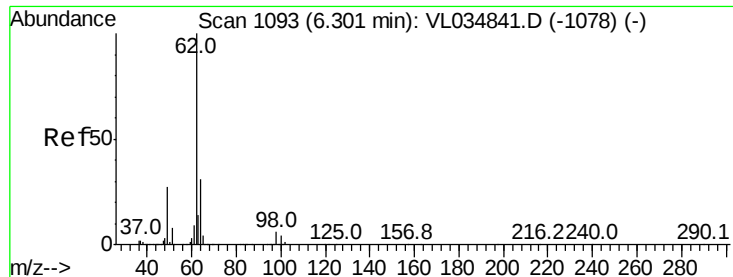


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

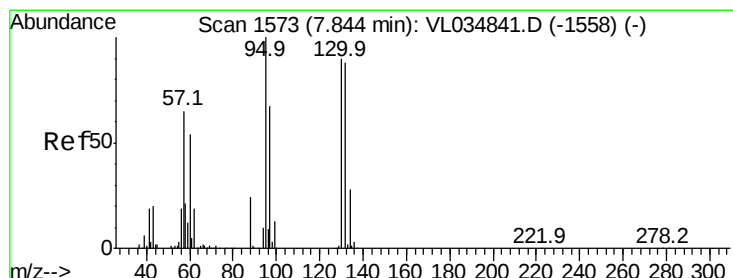
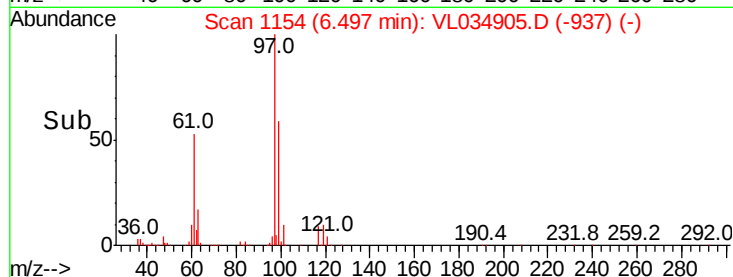
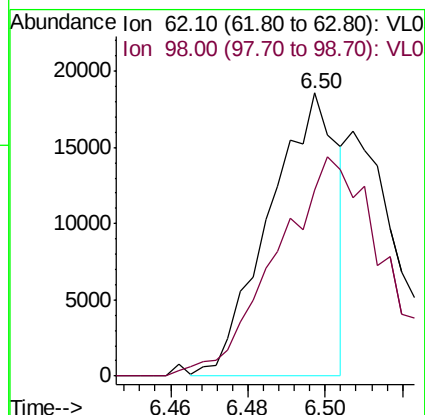
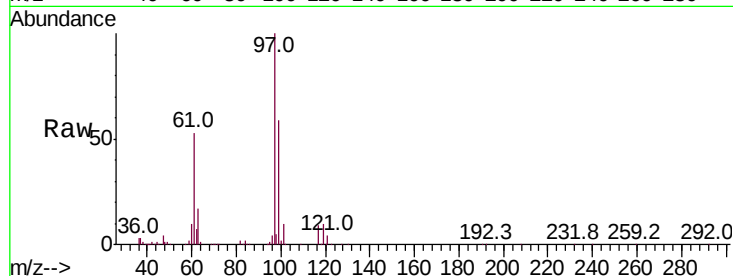




#37
1,2-Dichloroethane
Concen: 0.252 ppbv
RT: 6.50 min Scan# 1154
Delta R.T. 0.20 min
Lab File: VL034905.D
Acq: 17 Mar 2020 00:38

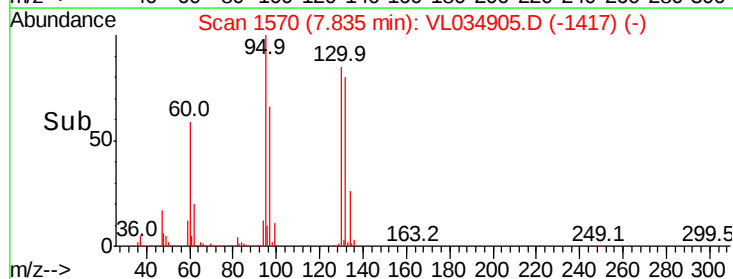
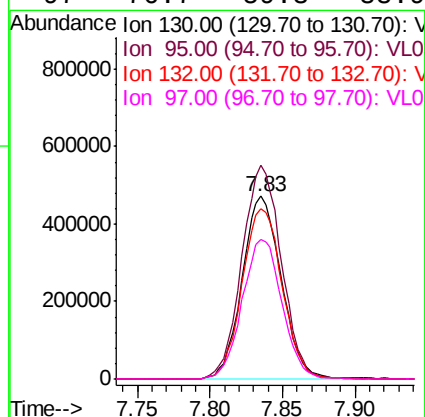
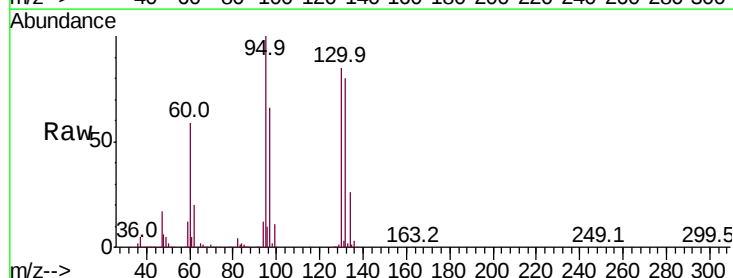
Instrument :
MSVOA_L
ClientSampleId :

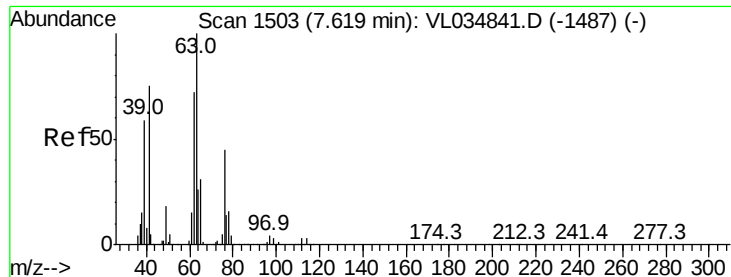
Tot Ion: 62 Resp: 22907
Ion Ratio Lower Upper
62 100
98 119.5 5.2 7.8#



#38
Trichloroethene
Concen: 14.480 ppbv
RT: 7.83 min Scan# 1570
Delta R.T. -0.01 min
Lab File: VL034905.D
Acq: 17 Mar 2020 00:38

Tgt Ion:130 Resp: 885393
Ion Ratio Lower Upper
130 100
95 117.0 88.5 132.7
132 93.0 78.0 117.0
97 76.7 59.3 88.9





#39

1,2-Dichloropropane

Concen: 7.787 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.45 min

Lab File: VL034905.D

Acq: 17 Mar 2020 00:38

Instrument :

MSVOA_L

ClientSampleId :

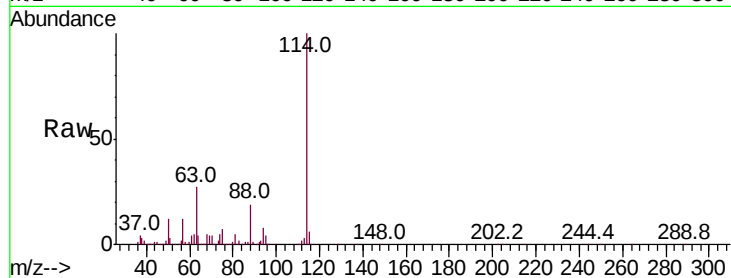
Tot Ion: 63 Resp: 496710

Ion Ratio Lower Upper

63 100

41 0.3 59.8 89.8#

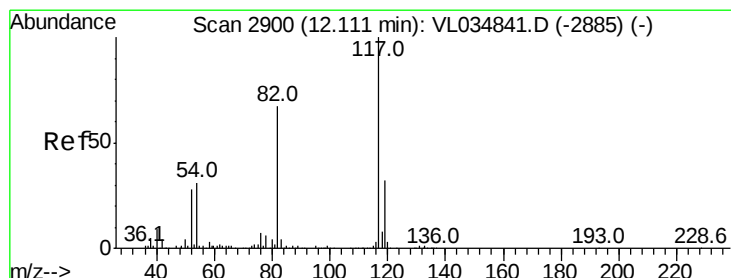
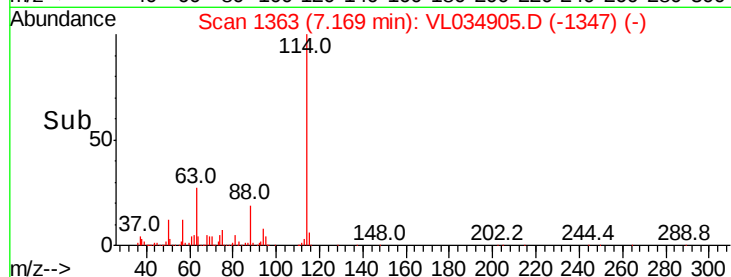
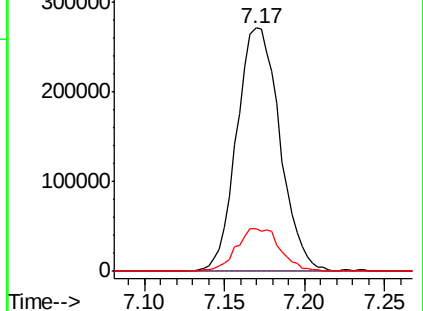
62 17.6 57.6 86.4#



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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2897

Delta R.T. -0.01 min

Lab File: VL034905.D

Acq: 17 Mar 2020 00:38

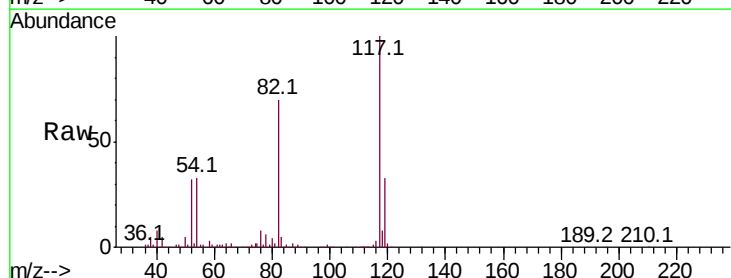
Tgt Ion: 117 Resp: 1762654

Ion Ratio Lower Upper

117 100

82 69.8 51.1 76.7

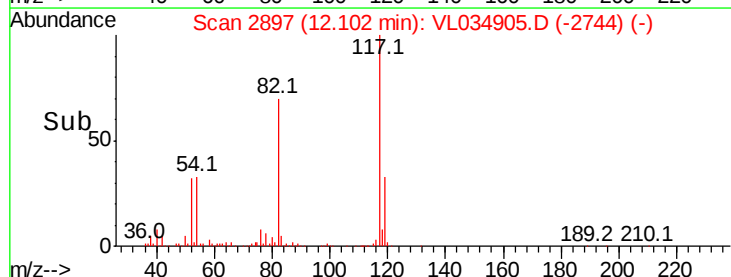
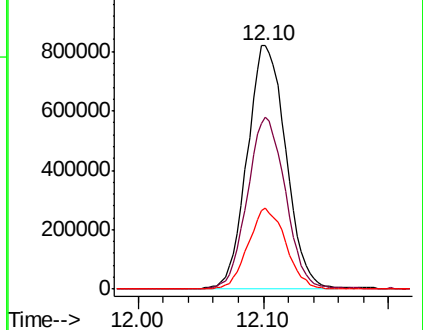
119 32.4 27.3 40.9

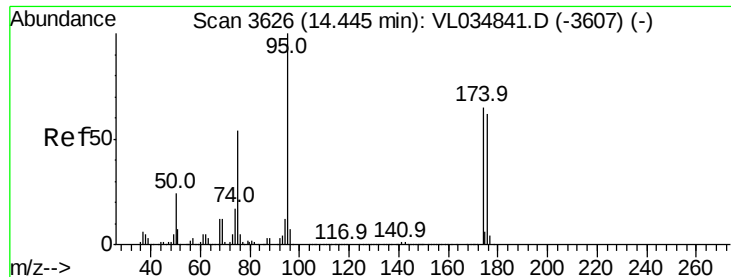


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.381 ppbv

RT: 14.44 min Scan# 3624

Delta R.T. -0.01 min

Lab File: VL034905.D

Acq: 17 Mar 2020 00:38

Instrument :

MSVOA_L

ClientSampleId :

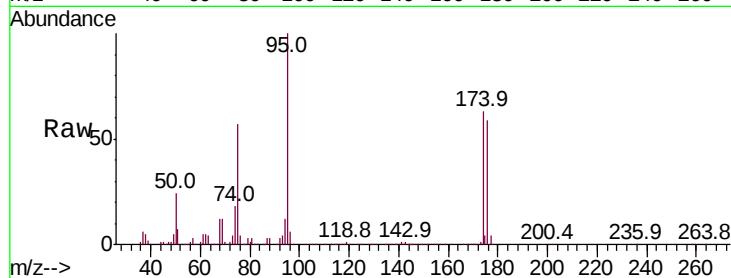
Tot Ion: 95 Resp: 1427070

Ion Ratio Lower Upper

95 100

174 64.2 55.2 82.8

175 4.6 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

