

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121118\
 Data File : VL032977.D
 Acq On : 12 Dec 2018 9:02
 Operator : SY/AP
 Sample : VIBLK
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

Quant Time: Dec 12 09:43:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 07 09:35:17 2018
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	990588	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2719125	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2626621	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1979889	10.20	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.00%

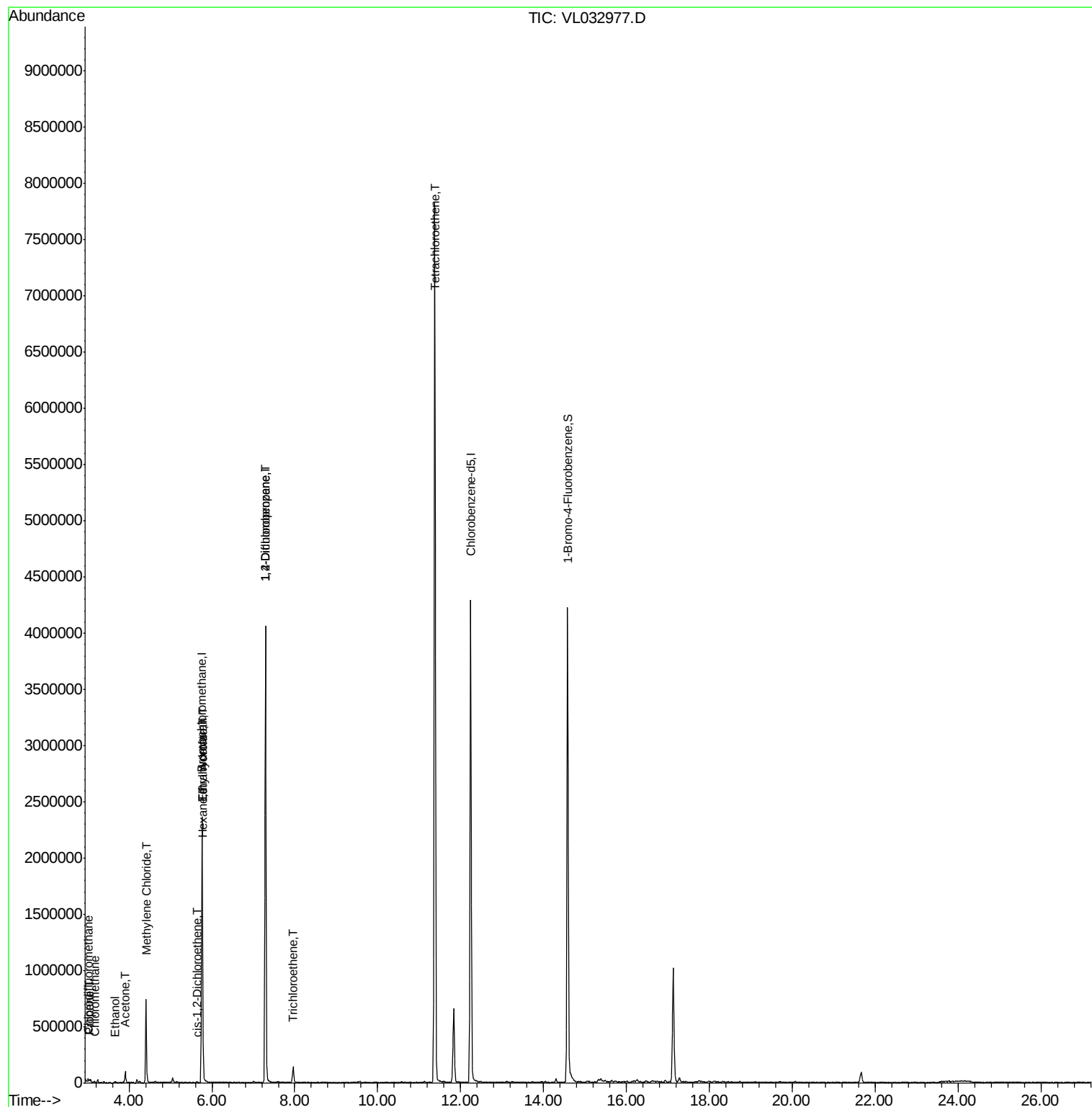
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.02	51	22690	0.302	ppbv	96
4) Chloromethane	3.17	50	5690	0.130	ppbv #	81
9) Propene	3.05	41	4119	0.139	ppbv	91
13) Ethanol	3.66	45	3957	0.387	ppbv #	40
15) Acetone	3.91	43	91280	1.074	ppbv	96
20) Methylene Chloride	4.41	84	258421	6.219	ppbv	95
25) Ethyl Acetate	5.78	43	64017	0.319	ppbv #	79
26) Hexane	5.78	57	86493	0.933	ppbv #	41
31) cis-1,2-Dichloroethene	5.64	61	3658	0.043	ppbv #	88
38) Trichloroethene	7.96	130	18647	0.224	ppbv	92
39) 1,2-Dichloropropane	7.29	63	682342	8.996	ppbv #	21
41) Tetrahydrofuran	5.78	42	36135	0.491	ppbv #	49
52) Tetrachloroethene	11.38	164	1865703	25.646	ppbv	98

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

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QLast Update : Fri Dec 07 09:35:17 2018
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.01 min

Lab File: VL032977.D

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MSVOA_L

ClientSampleId :

VIBLK

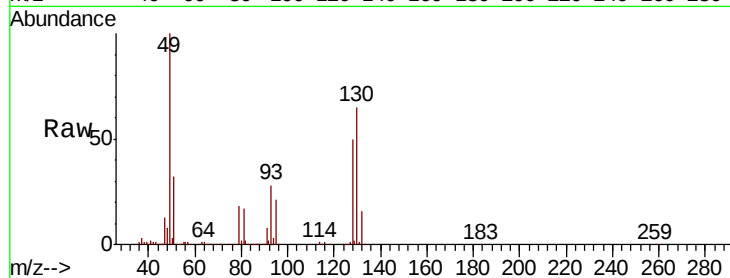
Tot Ion: 49 Resp: 990588

Ion Ratio Lower Upper

49 100

128 51.7 26.3 78.8

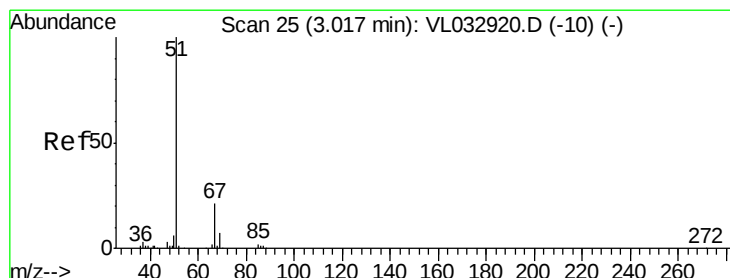
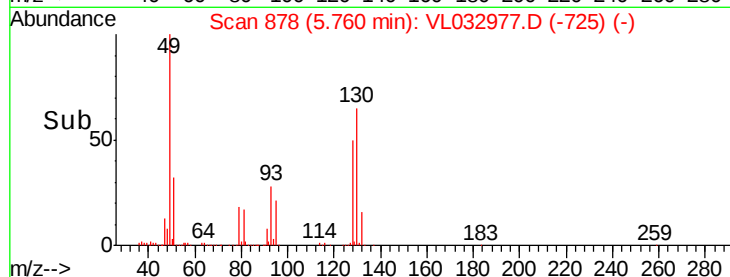
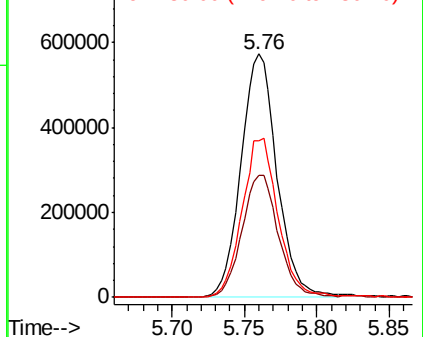
130 66.3 33.9 101.7



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: 0.302 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL032977.D

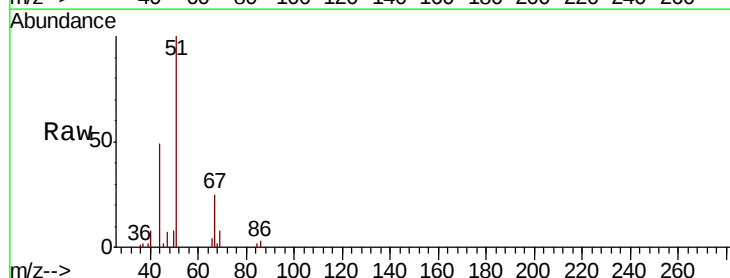
Acq: 12 Dec 2018 9:02

Tgt Ion: 51 Resp: 22690

Ion Ratio Lower Upper

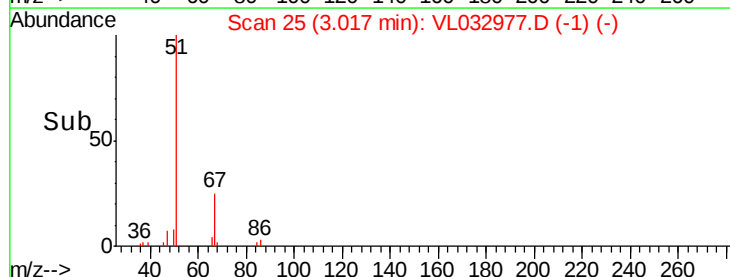
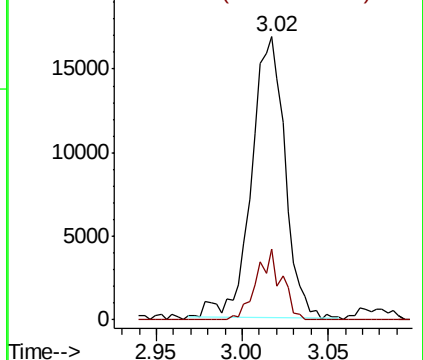
51 100

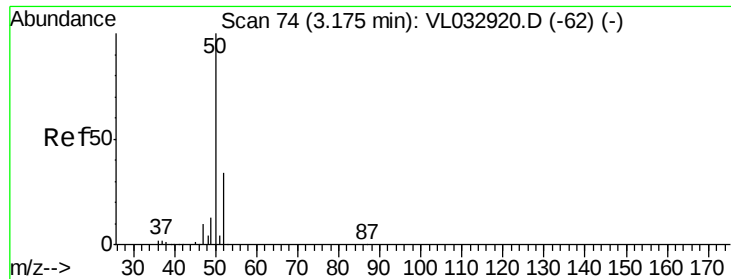
67 19.0 16.8 25.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.130 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.01 min

Lab File: VL032977.D

Acq: 12 Dec 2018 9:02

Instrument :

MSVOA_L

ClientSampleId :

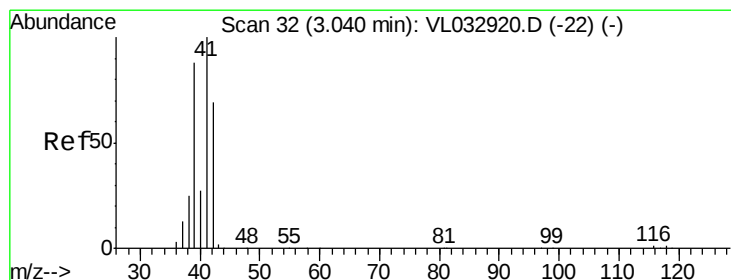
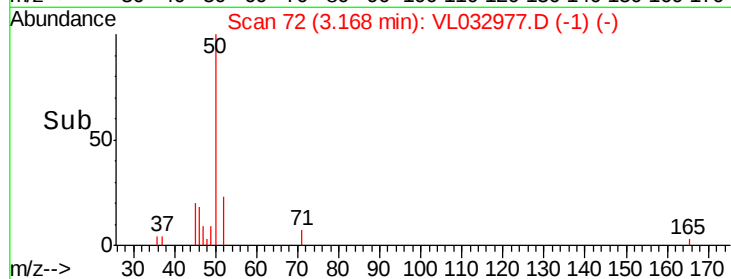
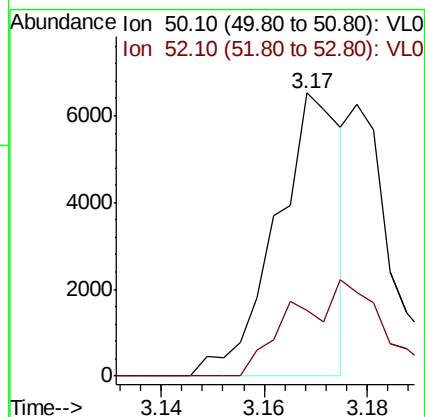
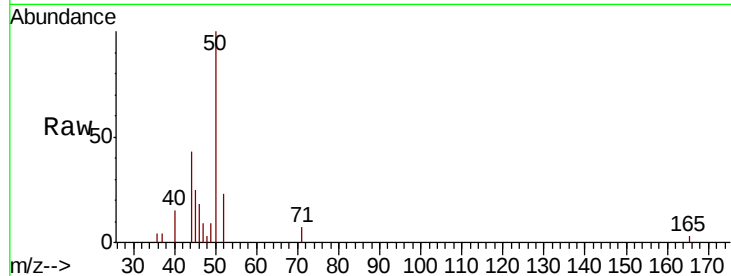
VIBLK

Tot Ion: 50 Resp: 5690

Ion Ratio Lower Upper

50 100

52 23.3 27.3 40.9#



#9

Propene

Concen: 0.139 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.01 min

Lab File: VL032977.D

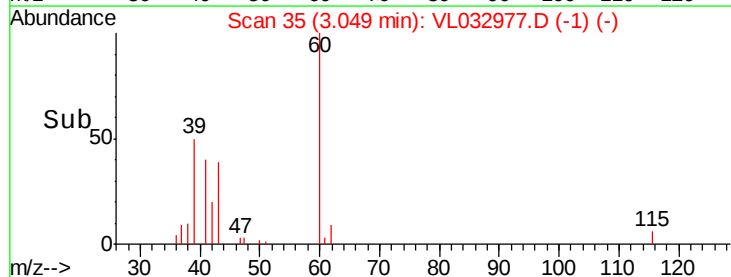
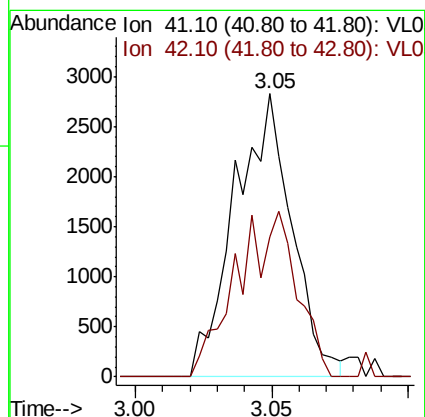
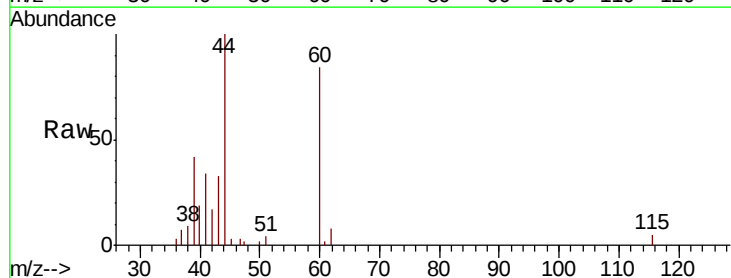
Acq: 12 Dec 2018 9:02

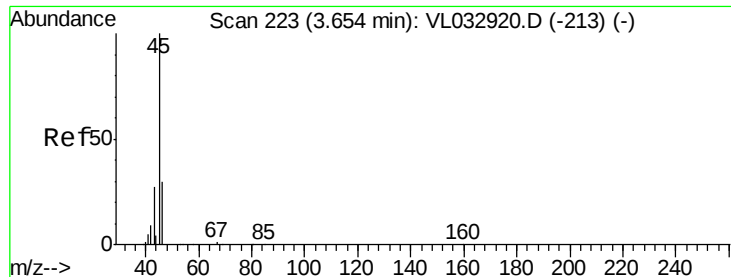
Tgt Ion: 41 Resp: 4119

Ion Ratio Lower Upper

41 100

42 62.4 56.2 84.2





#13

Ethanol

Concen: 0.387 ppbv

RT: 3.66 min Scan# 224

Delta R.T. 0.00 min

Lab File: VL032977.D

Acq: 12 Dec 2018 9:02

Instrument :

MSVOA_L

ClientSampleId :

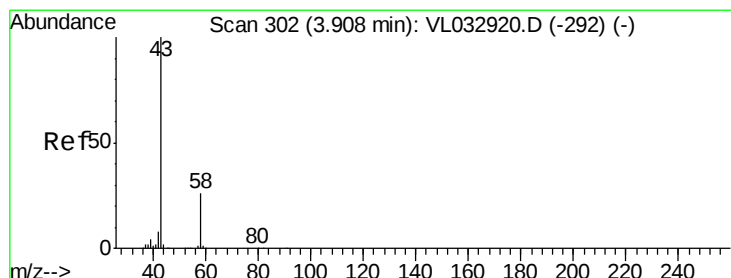
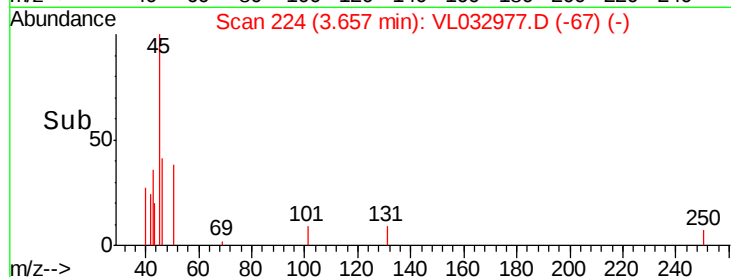
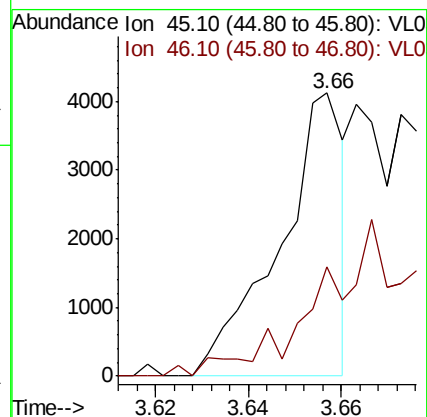
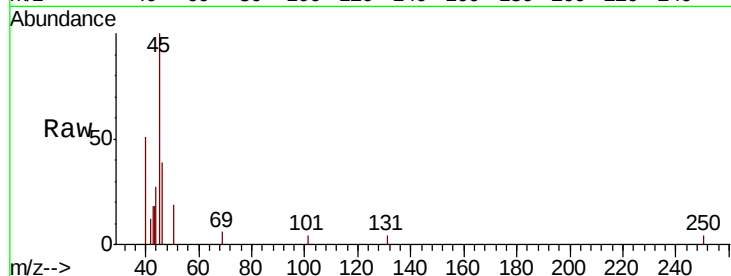
VIBLK

Tot Ion: 45 Resp: 3957

Ion Ratio Lower Upper

45 100

46 0.0 13.8 55.4#



#15

Acetone

Concen: 1.074 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.00 min

Lab File: VL032977.D

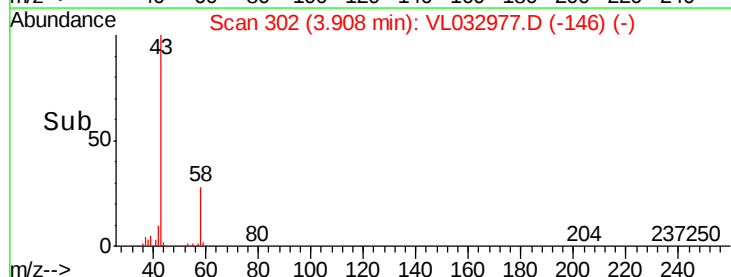
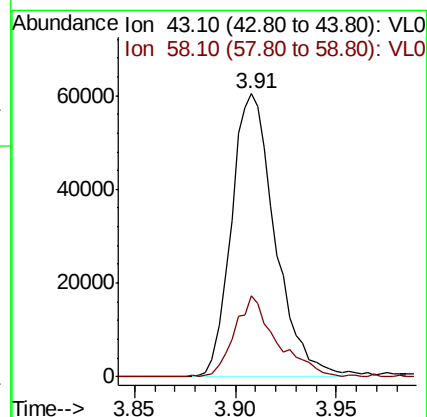
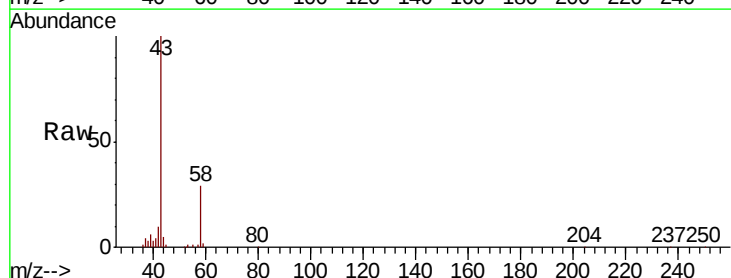
Acq: 12 Dec 2018 9:02

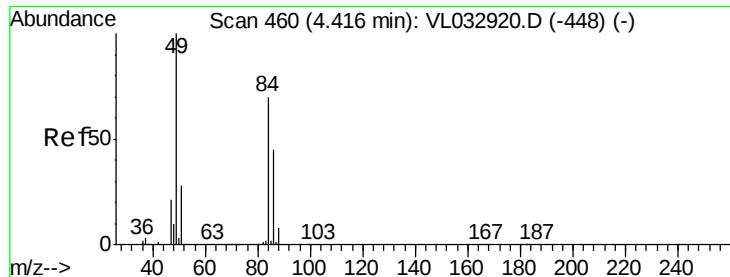
Tgt Ion: 43 Resp: 91280

Ion Ratio Lower Upper

43 100

58 27.6 20.6 30.8

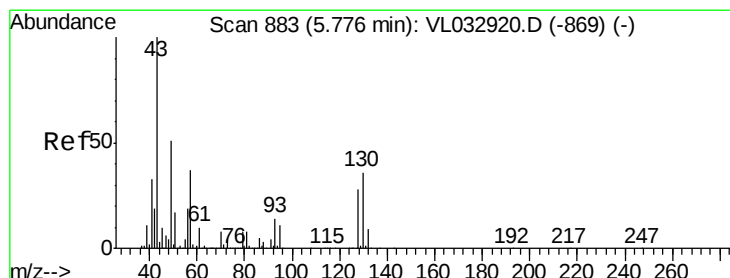
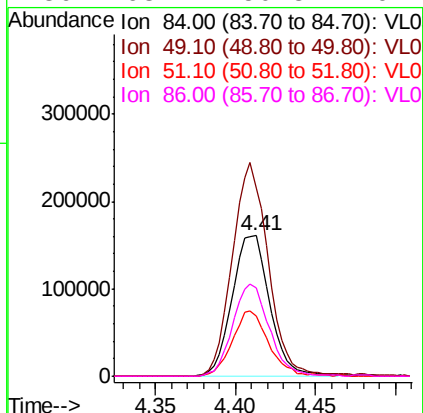
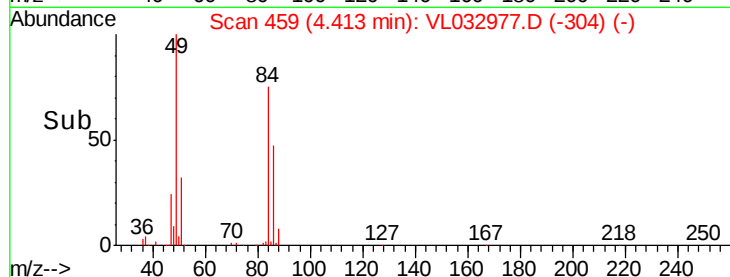
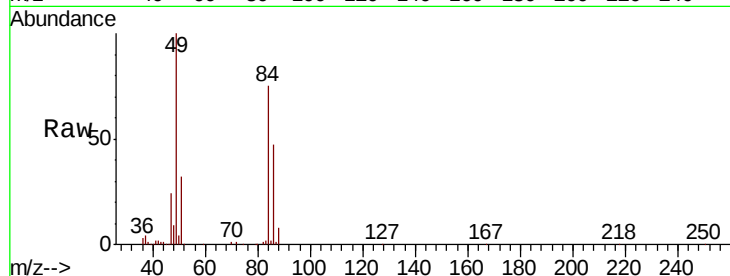




#20
Methvlene Chloride
Concen: 6.219 ppbv
RT: 4.41 min Scan# 459
Delta R.T. -0.00 min
Lab File: VL032977.D
Acq: 12 Dec 2018 9:02

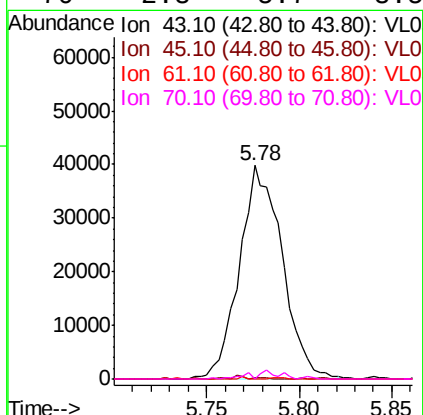
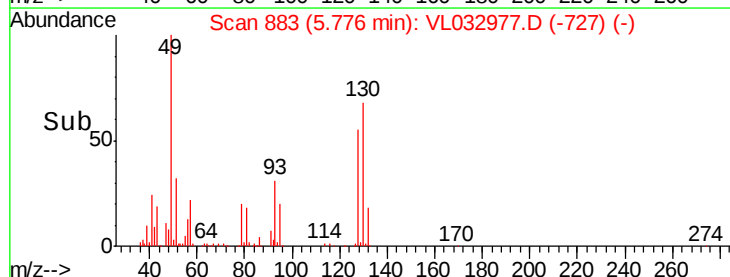
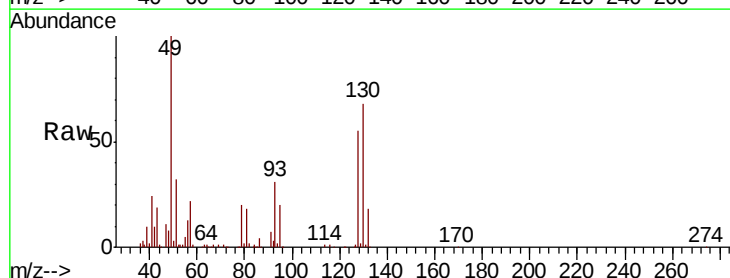
Instrument :
MSVOA_L
ClientSampleId :
VIBLK

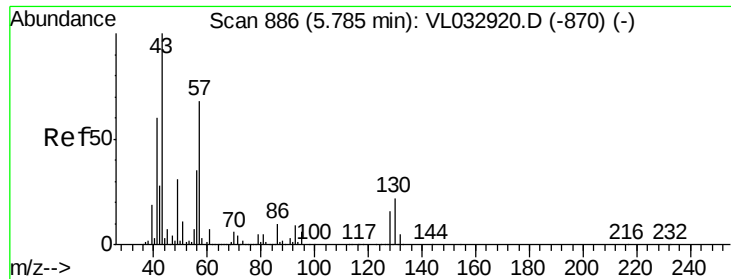
Tot Ion: 84 Resp: 258421
Ion Ratio Lower Upper
84 100
49 133.9 113.8 170.8
51 43.1 31.8 47.8
86 63.1 50.8 76.2



#25
Ethyl Acetate
Concen: 0.319 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL032977.D
Acq: 12 Dec 2018 9:02

Tgt Ion: 43 Resp: 64017
Ion Ratio Lower Upper
43 100
45 0.8 7.8 11.6#
61 0.4 7.4 11.2#
70 2.8 5.7 8.5#





#26

Hexane

Concen: 0.933 ppbv

RT: 5.78 min Scan# 884

Delta R.T. -0.01 min

Lab File: VL032977.D

Acq: 12 Dec 2018 9:02

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

Tot Ion: 57 Resp: 86493

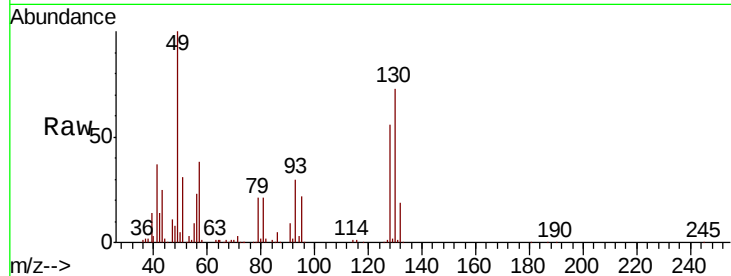
Ion Ratio Lower Upper

57 100

41 104.2 72.2 108.2

43 74.4 171.9 257.9#

56 61.9 42.2 63.2



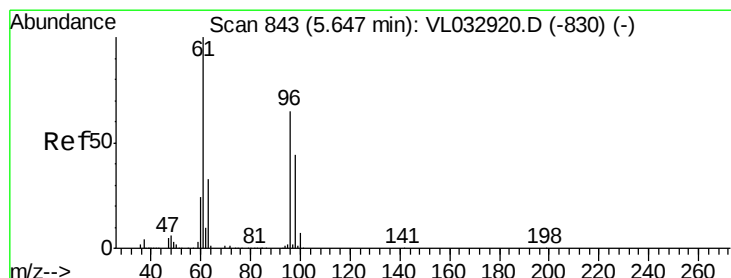
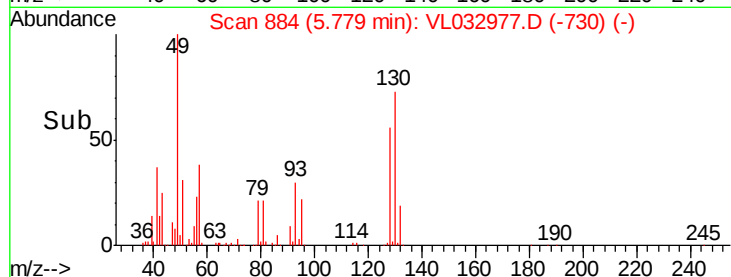
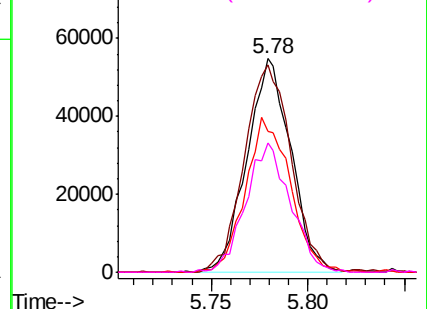
Abundance

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



#31

cis-1,2-Dichloroethene

Concen: 0.043 ppbv

RT: 5.64 min Scan# 841

Delta R.T. -0.01 min

Lab File: VL032977.D

Acq: 12 Dec 2018 9:02

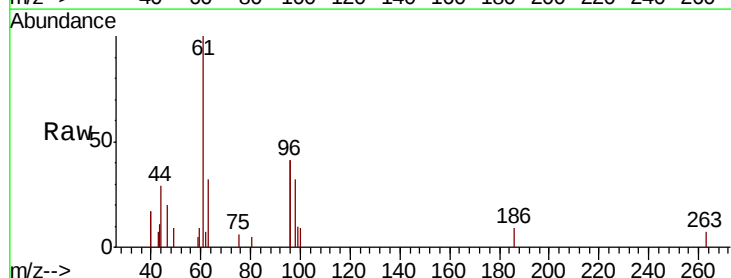
Tgt Ion: 61 Resp: 3658

Ion Ratio Lower Upper

61 100

96 71.6 51.9 77.9

98 32.2 35.0 52.4#

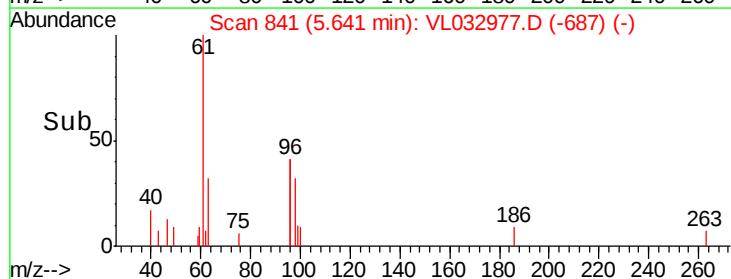
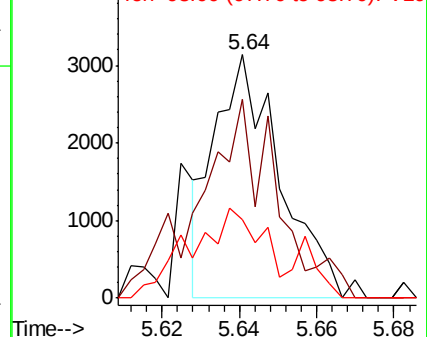


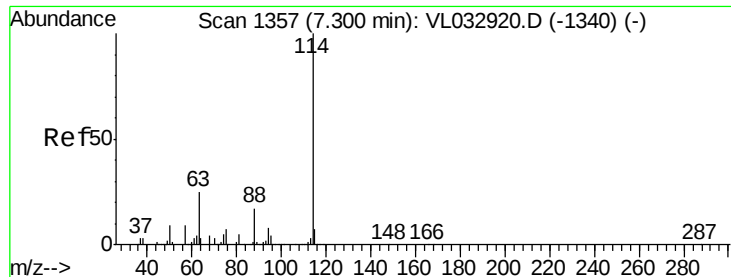
Abundance

Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0

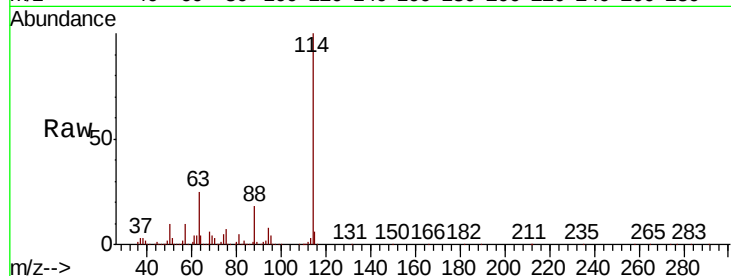




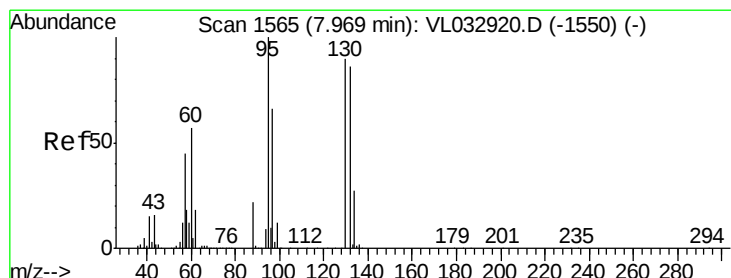
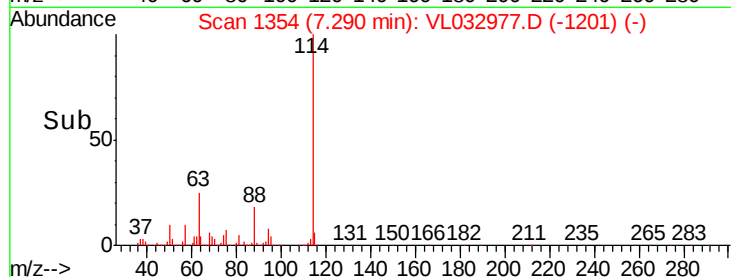
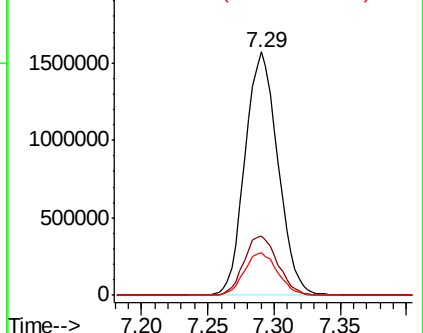
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.01 min
 Lab File: VL032977.D
 Acq: 12 Dec 2018 9:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

Tot Ion:114 Resp: 2719125
 Ion Ratio Lower Upper
 114 100
 63 25.2 20.1 30.1
 88 17.9 14.2 21.4

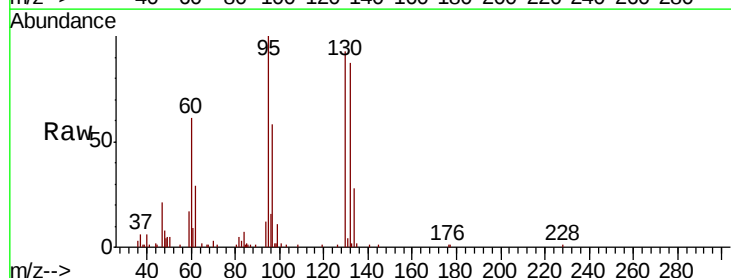


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

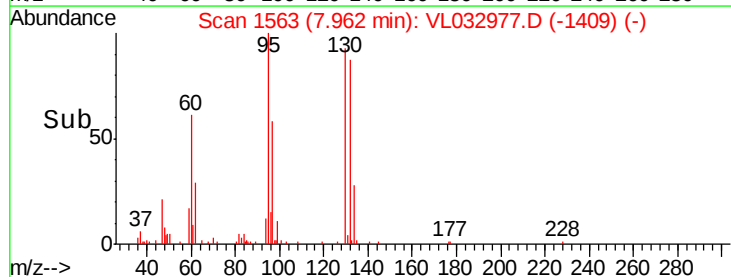
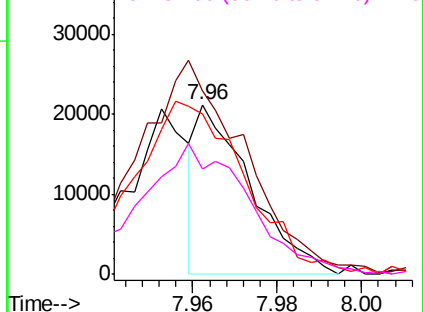


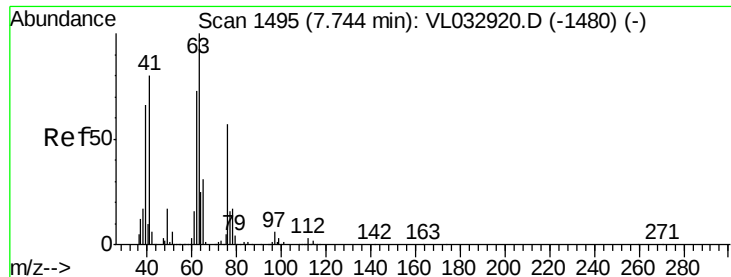
#38
 Trichloroethene
 Concen: 0.224 ppbv
 RT: 7.96 min Scan# 1563
 Delta R.T. -0.01 min
 Lab File: VL032977.D
 Acq: 12 Dec 2018 9:02

Tgt Ion:130 Resp: 18647
 Ion Ratio Lower Upper
 130 100
 95 102.6 88.6 132.8
 132 92.3 76.1 114.1
 97 58.7 58.0 87.0



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: 8.996 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.45 min

Lab File: VL032977.D

Acq: 12 Dec 2018 9:02

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

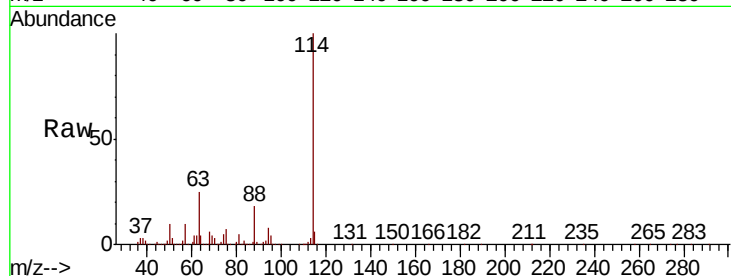
Tot Ion: 63 Resp: 682342

Ion Ratio Lower Upper

63 100

41 0.0 63.9 95.9#

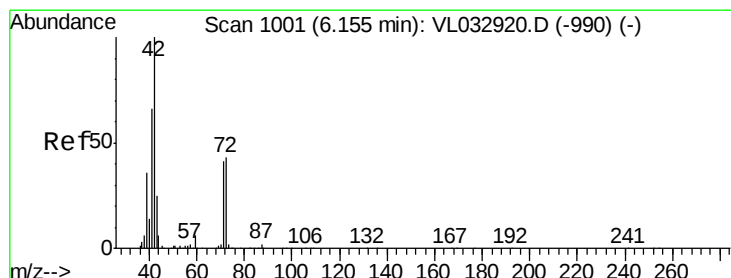
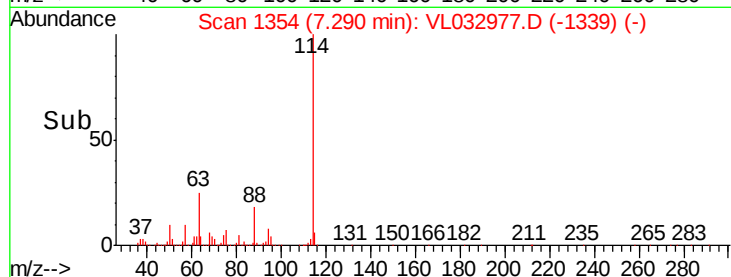
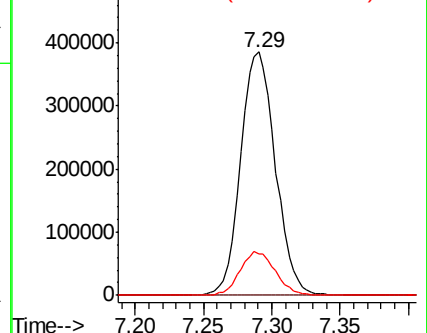
62 17.0 58.8 88.2#



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



#41

Tetrahydrofuran

Concen: 0.491 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.38 min

Lab File: VL032977.D

Acq: 12 Dec 2018 9:02

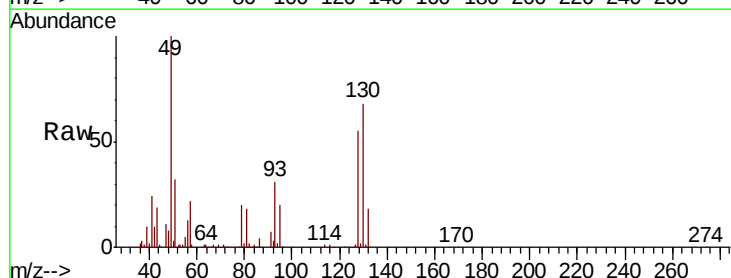
Tgt Ion: 42 Resp: 36135

Ion Ratio Lower Upper

42 100

72 1.3 32.9 49.3#

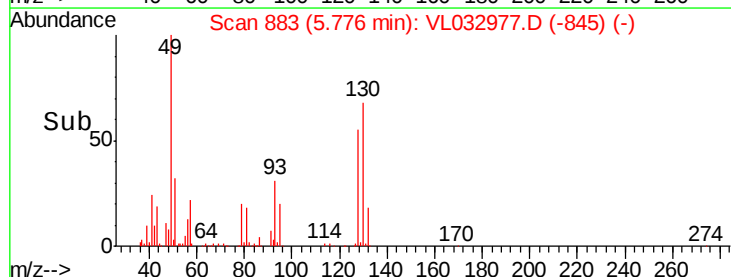
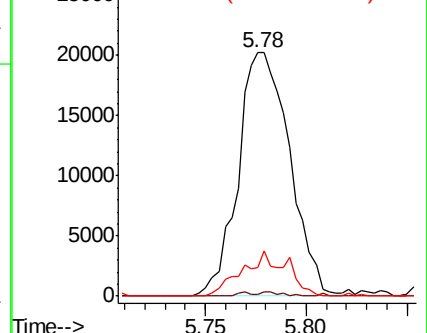
71 16.2 32.0 48.0#

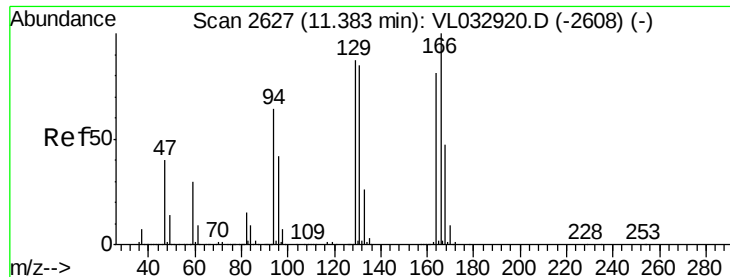


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#52

Tetrachloroethene

Concen: 25.646 ppbv

RT: 11.38 min Scan# 2625

Delta R.T. -0.01 min

Lab File: VL032977.D

Acq: 12 Dec 2018 9:02

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

Tot Ion:164 Resp: 1865703

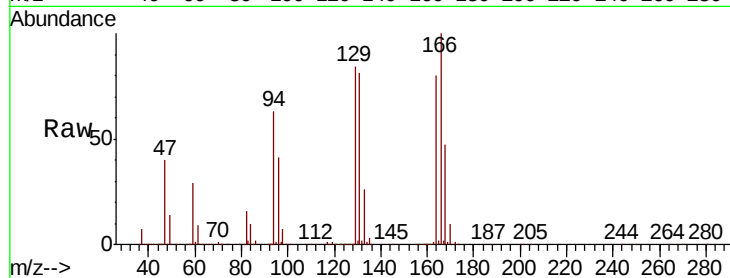
Ion Ratio Lower Upper

164 100

166 125.2 98.8 148.2

129 105.6 85.5 128.3

131 101.8 84.4 126.6

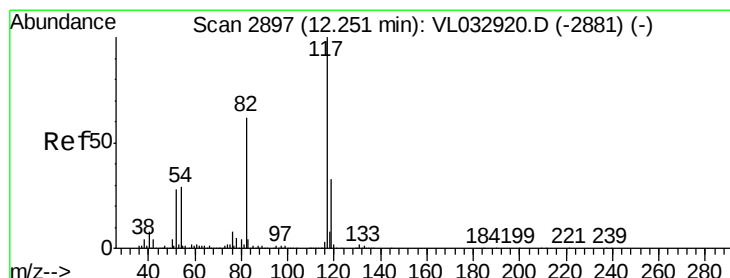
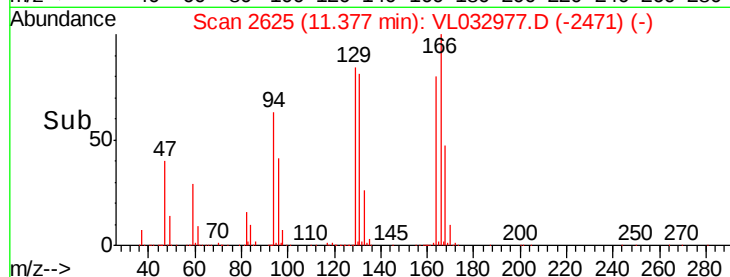
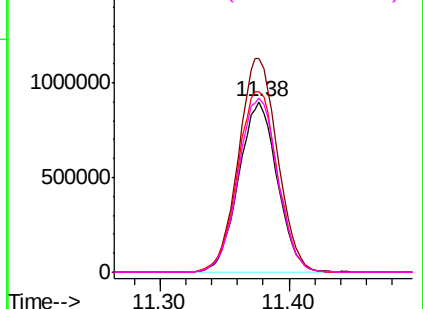


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2894

Delta R.T. -0.01 min

Lab File: VL032977.D

Acq: 12 Dec 2018 9:02

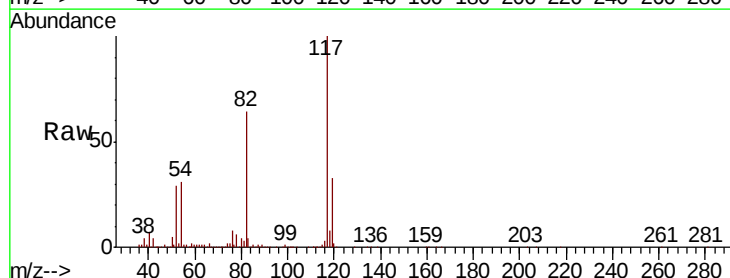
Tgt Ion:117 Resp: 2626621

Ion Ratio Lower Upper

117 100

82 64.8 47.8 71.8

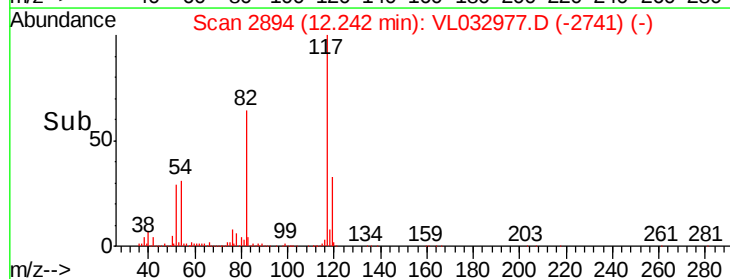
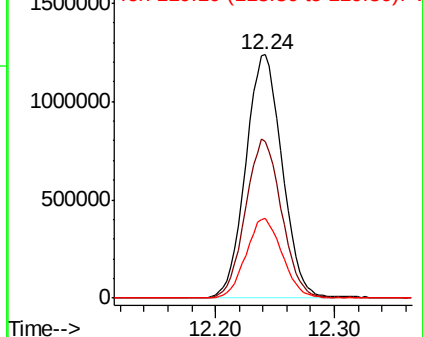
119 32.7 43.1 64.7#

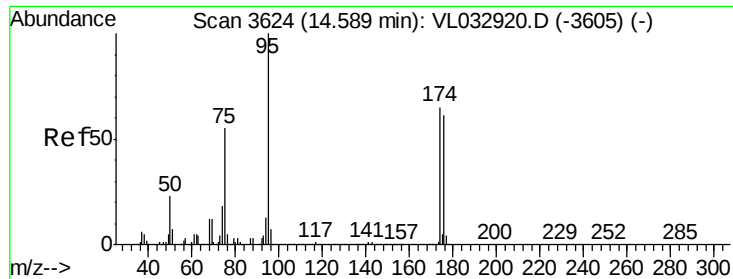


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VLO

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.203 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.01 min

Lab File: VL032977.D

Acq: 12 Dec 2018 9:02

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

Tot Ion: 95 Resp: 1979889

Ion Ratio Lower Upper

95 100

174 65.0 51.4 77.0

175 4.8 3.8 5.6

