

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112018\
 Data File : VL032786.D
 Acq On : 20 Nov 2018 20:06
 Operator : SY/AP
 Sample : J5961-02DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 21 04:07:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 14 07:00:23 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1308568	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3337936	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2952636	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	2151563	9.74	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.40%

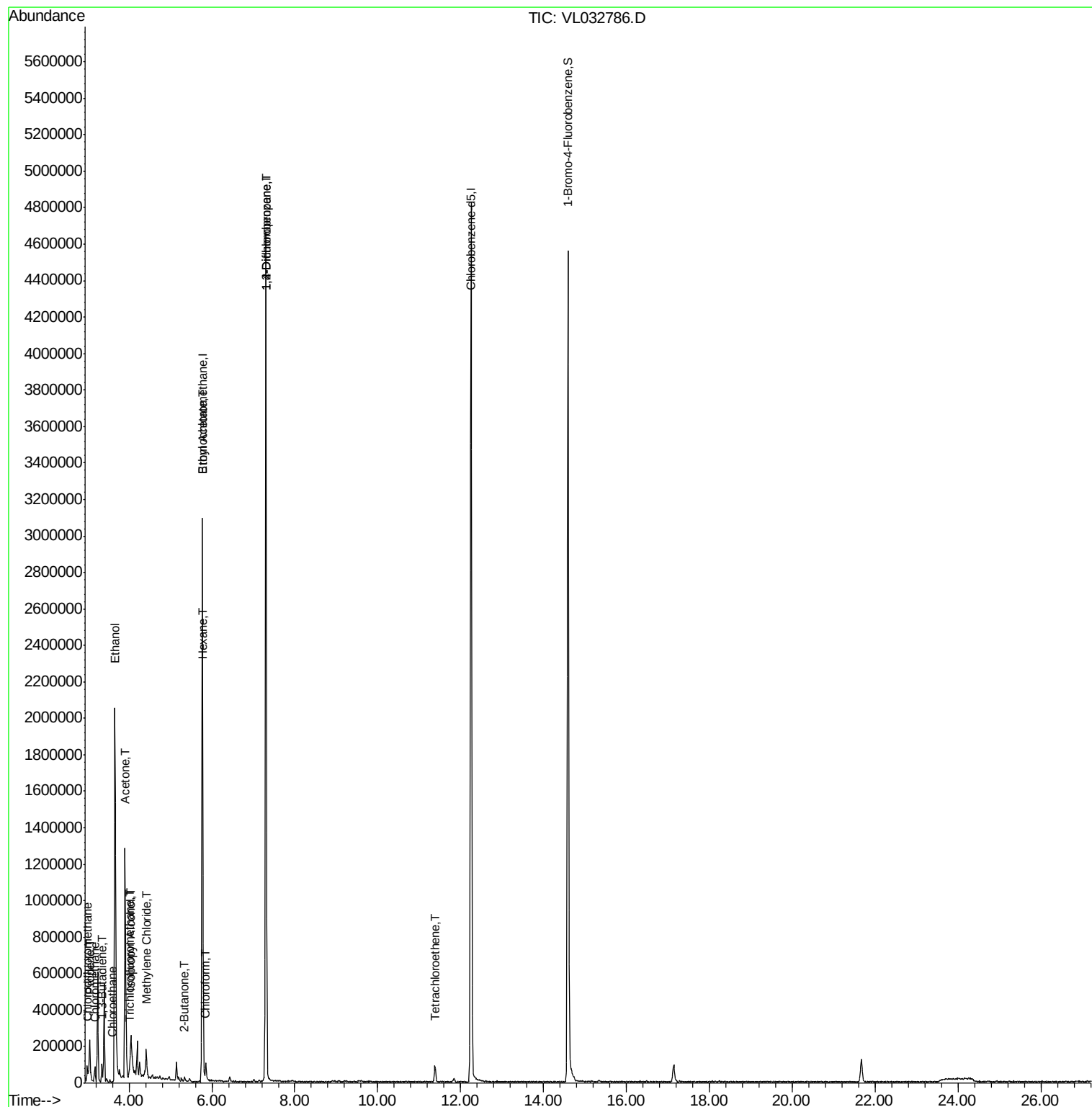
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	102275	0.986	ppbv #	79
4) Chloromethane	3.18	50	69923	1.215	ppbv	92
7) Chloroethane	3.60	64	1633	0.074	ppbv #	79
9) Propene	3.05	41	72669	1.750	ppbv #	82
11) Trichlorofluoromethane	4.01	101	32740	0.185	ppbv	99
13) Ethanol	3.66	45	2510487	184.617	ppbv	99
15) Acetone	3.90	43	1287254	10.772	ppbv	95
16) 1,3-Butadiene	3.35	39	17902	0.387	ppbv #	59
19) Isopropyl Alcohol	4.04	45	321159	4.034	ppbv #	1
20) Methylene Chloride	4.42	84	49499	0.800	ppbv	97
25) Ethyl Acetate	5.78	43	9123	0.033	ppbv #	77
26) Hexane	5.79	57	5096	0.041	ppbv #	27
29) Chloroform	5.85	83	58623	0.265	ppbv #	81
34) 2-Butanone	5.34	43	24337	0.141	ppbv	100
39) 1,2-Dichloropropane	7.30	63	815271	8.050	ppbv #	22
52) Tetrachloroethene	11.38	164	14815	0.160	ppbv #	87

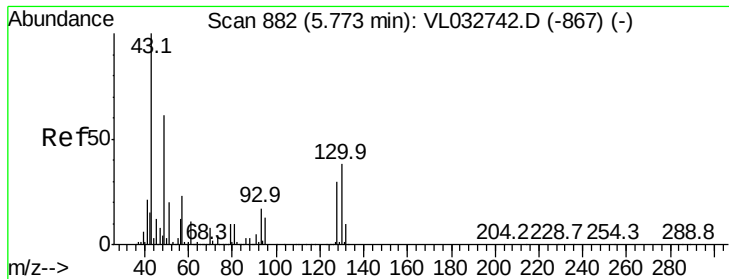
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.00 min

Lab File: VL032786.D

Acq: 20 Nov 2018 20:06

Instrument :
MSVOA_L
ClientSampleId :

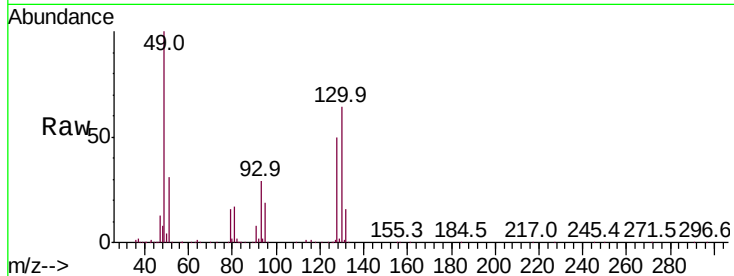
Tot Ion: 49 Resp: 1308568

Ion Ratio Lower Upper

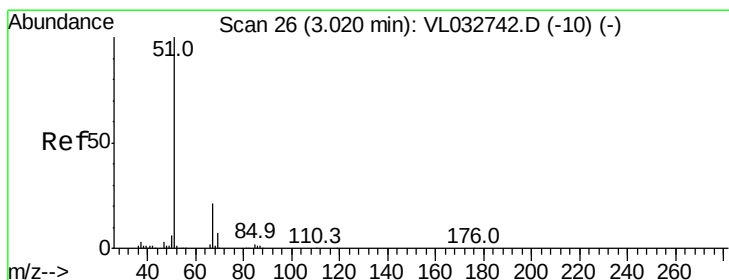
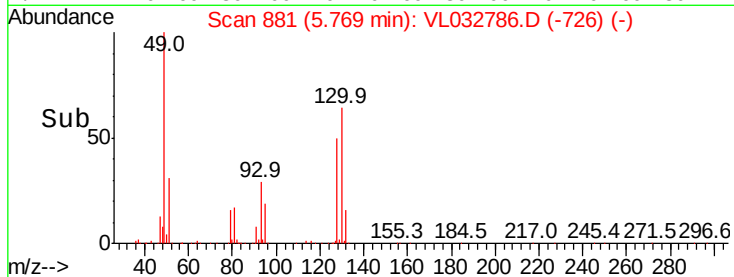
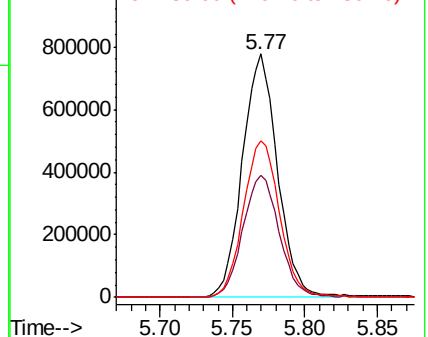
49 100

128 52.6 24.9 74.6

130 67.1 31.4 94.2



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



#3

Chlorodifluoromethane

Concen: 0.986 ppbv

RT: 2.99 min Scan# 18

Delta R.T. -0.03 min

Lab File: VL032786.D

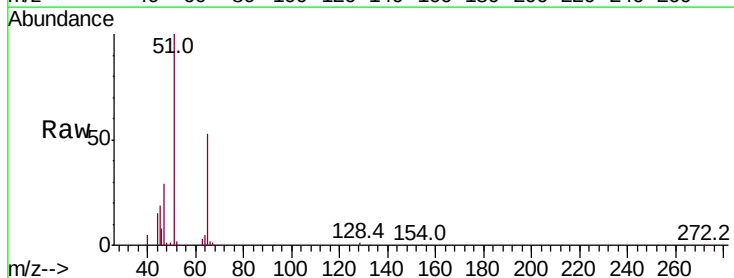
Acq: 20 Nov 2018 20:06

Tgt Ion: 51 Resp: 102275

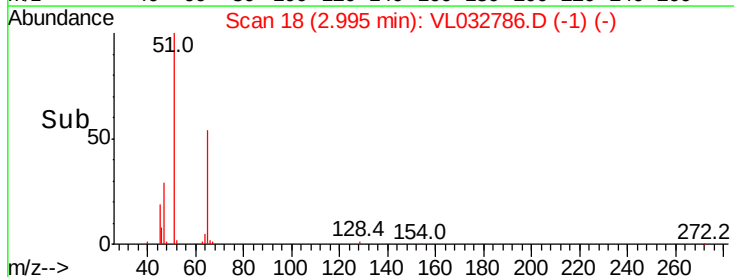
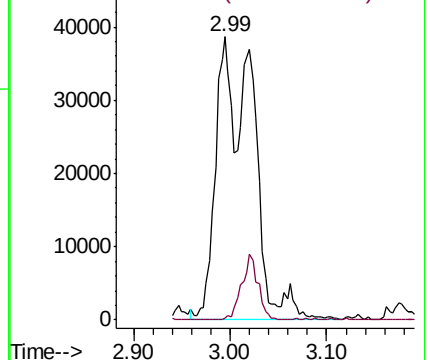
Ion Ratio Lower Upper

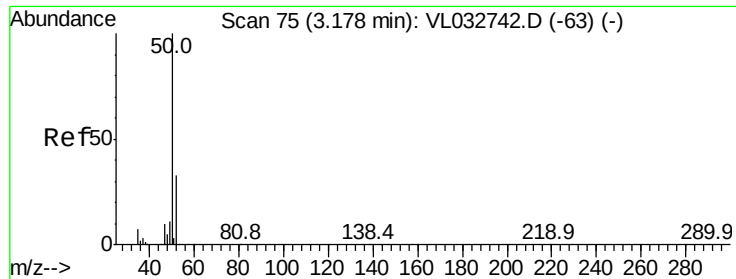
51 100

67 10.3 16.1 24.1#



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





#4

Chloromethane

Concen: 1.215 ppbv

RT: 3.18 min Scan# 75

Delta R.T. -0.00 min

Lab File: VL032786.D

Acq: 20 Nov 2018 20:06

Instrument :

MSVOA_L

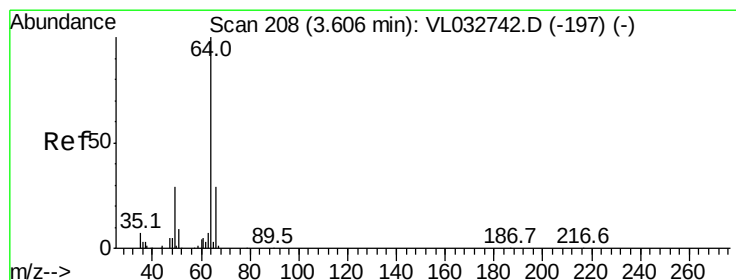
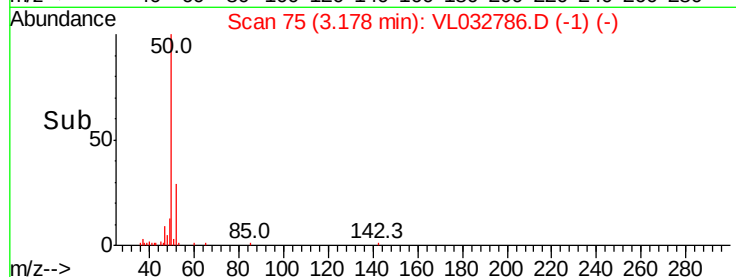
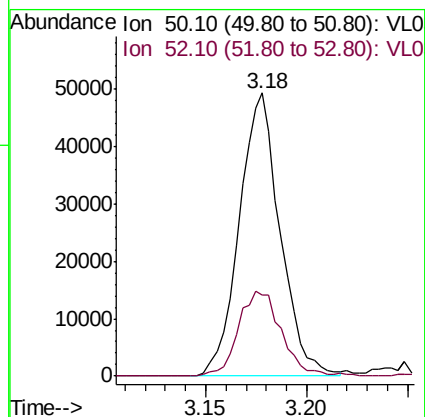
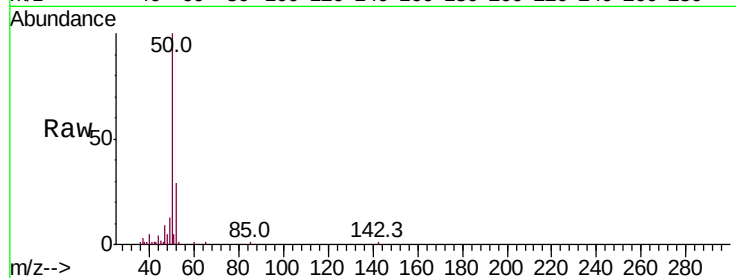
ClientSampleId :

Tot Ion: 50 Resp: 69923

Ion Ratio Lower Upper

50 100

52 28.9 26.6 40.0



#7

Chloroethane

Concen: 0.074 ppbv

RT: 3.60 min Scan# 207

Delta R.T. -0.00 min

Lab File: VL032786.D

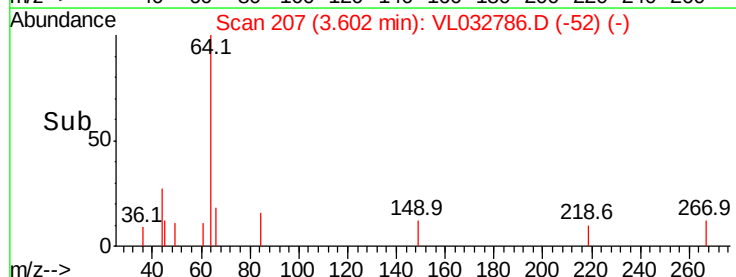
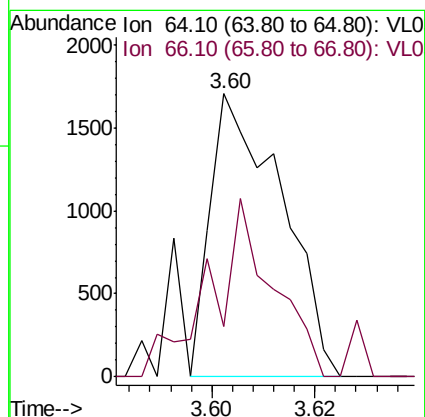
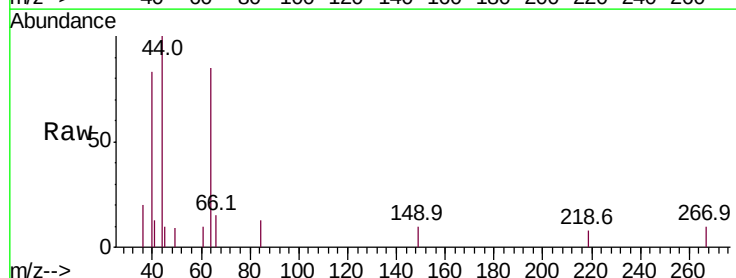
Acq: 20 Nov 2018 20:06

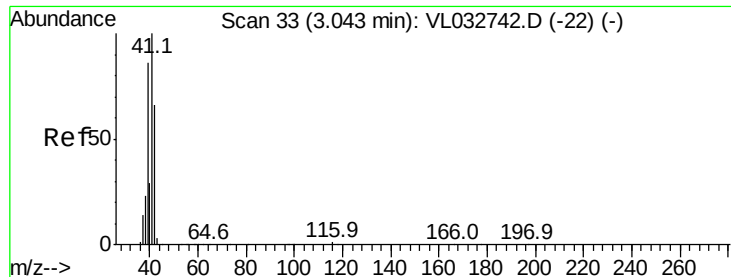
Tgt Ion: 64 Resp: 1633

Ion Ratio Lower Upper

64 100

66 18.0 23.2 34.8#





#9

Propene

Concen: 1.750 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.01 min

Lab File: VL032786.D

Acq: 20 Nov 2018 20:06

Instrument :

MSVOA_L

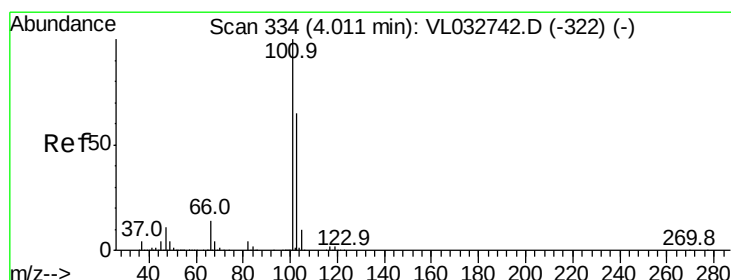
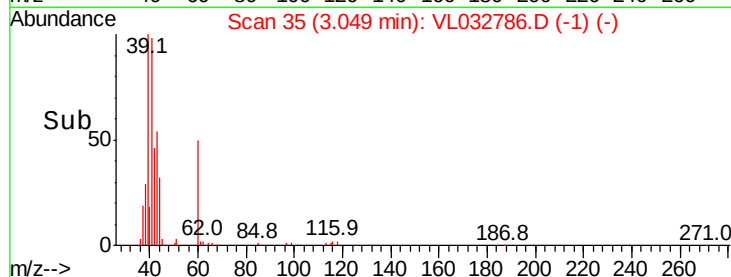
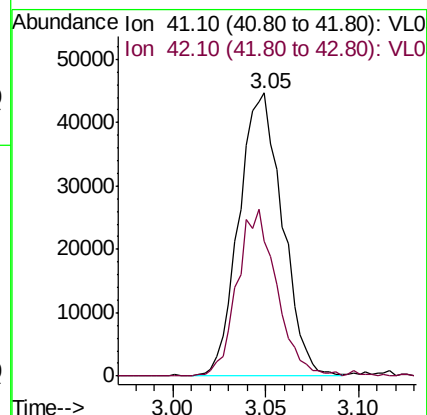
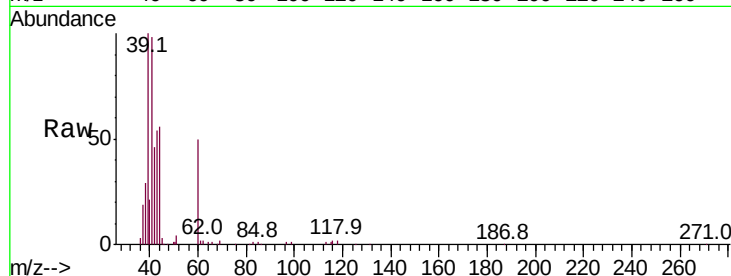
ClientSampleId :

Tot Ion: 41 Resp: 72669

Ion Ratio Lower Upper

41 100

42 54.1 55.0 82.6#



#11

Trichlorofluoromethane

Concen: 0.185 ppbv

RT: 4.01 min Scan# 334

Delta R.T. -0.00 min

Lab File: VL032786.D

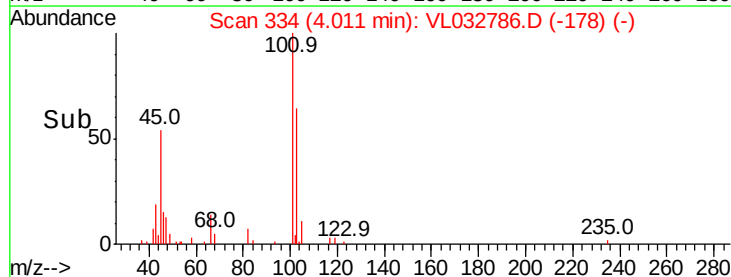
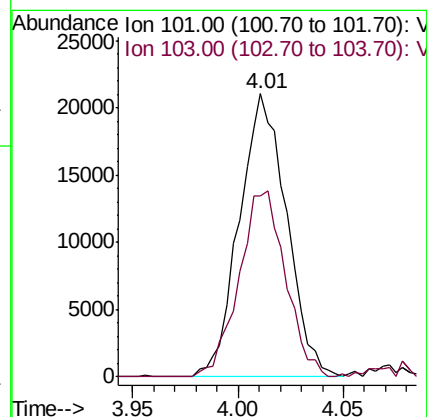
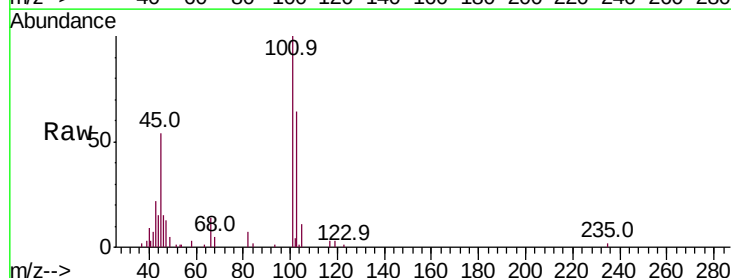
Acq: 20 Nov 2018 20:06

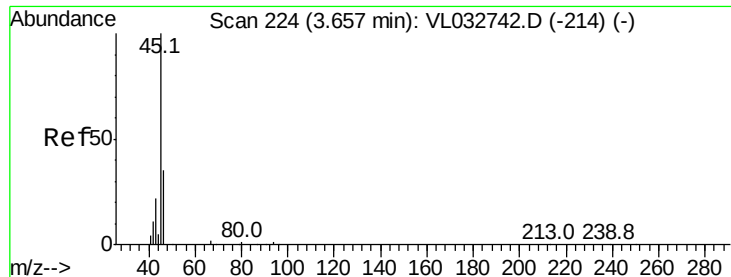
Tgt Ion: 101 Resp: 32740

Ion Ratio Lower Upper

101 100

103 63.9 51.6 77.4





#13

Ethanol

Concen: 184.617 ppbv

RT: 3.66 min Scan# 226

Delta R.T. 0.01 min

Lab File: VL032786.D

Acq: 20 Nov 2018 20:06

Instrument :

MSVOA_L

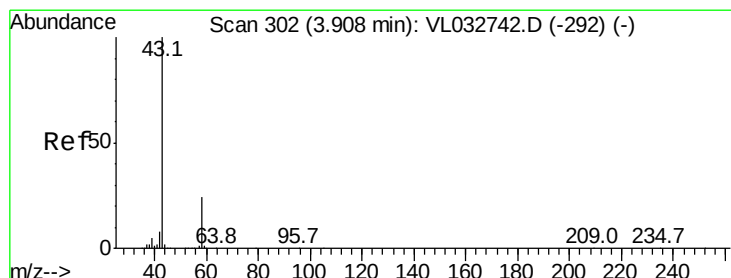
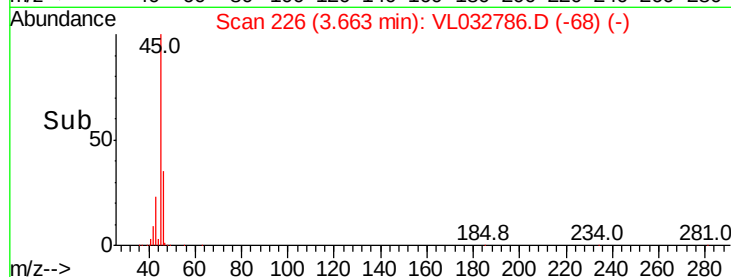
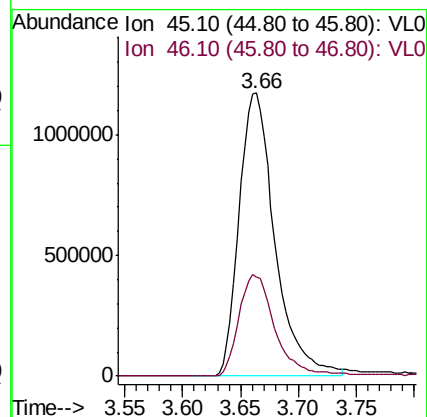
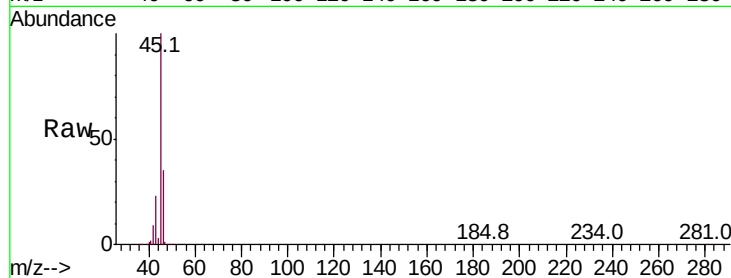
ClientSampleId :

Tot Ion: 45 Resp: 2510487

Ion Ratio Lower Upper

45 100

46 36.7 14.5 57.9



#15

Acetone

Concen: 10.772 ppbv

RT: 3.90 min Scan# 301

Delta R.T. -0.00 min

Lab File: VL032786.D

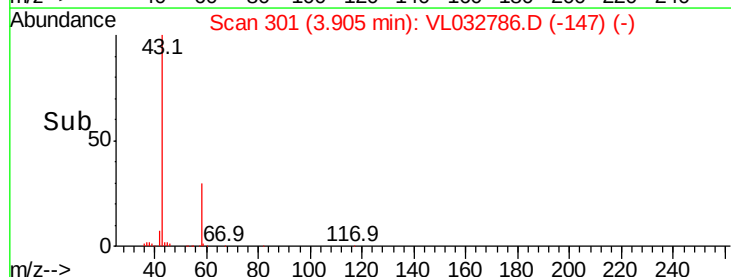
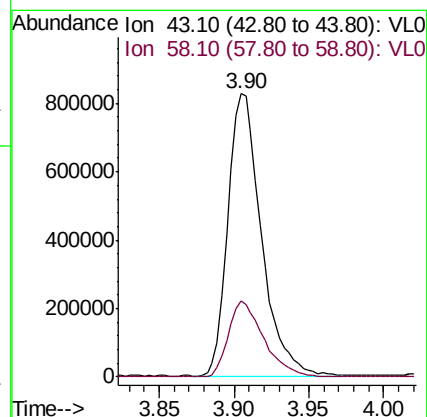
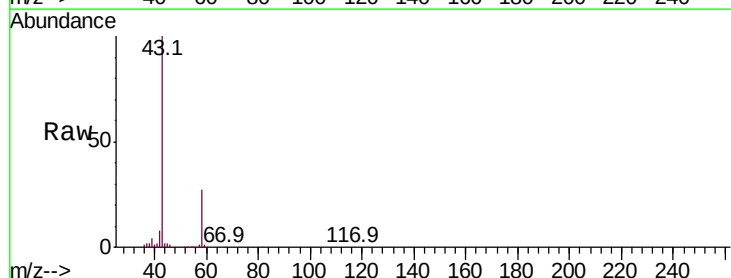
Acq: 20 Nov 2018 20:06

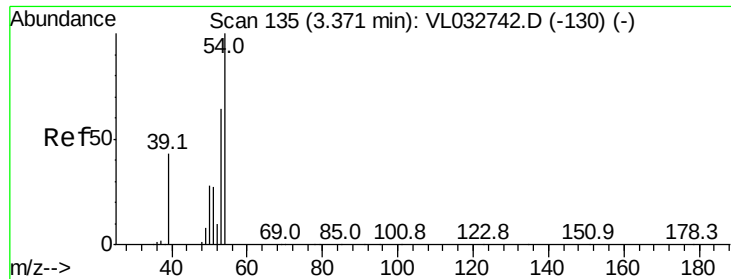
Tgt Ion: 43 Resp: 1287254

Ion Ratio Lower Upper

43 100

58 28.8 21.1 31.7

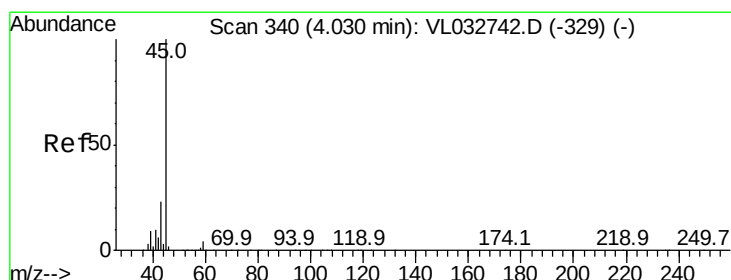
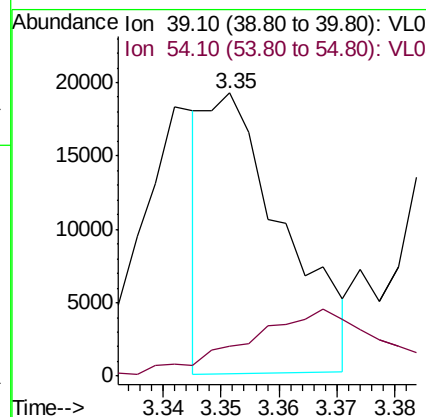
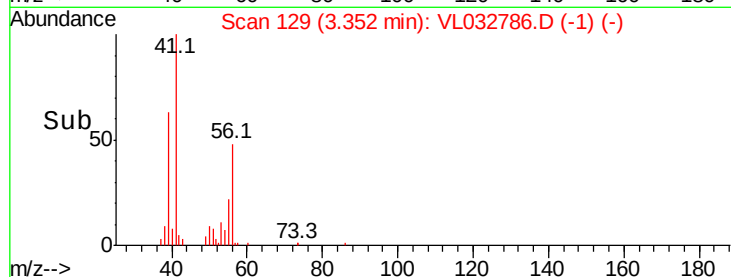
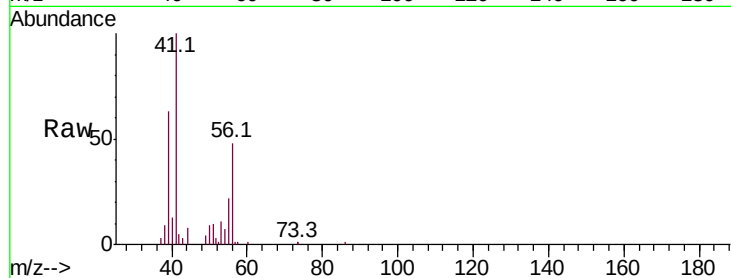




#16
1,3-Butadiene
Concen: 0.387 ppbv
RT: 3.35 min Scan# 129
Delta R.T. -0.02 min
Lab File: VL032786.D
Acq: 20 Nov 2018 20:06

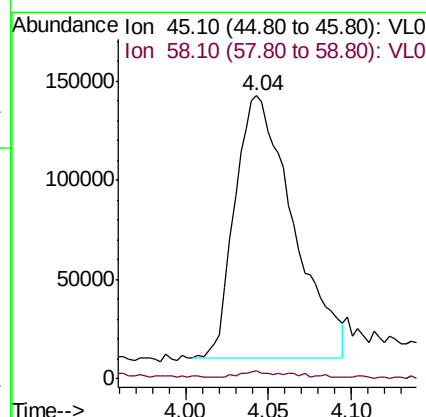
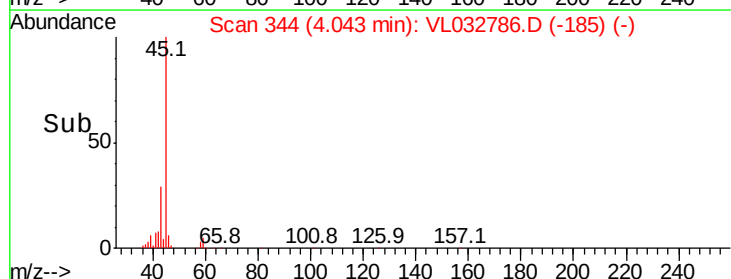
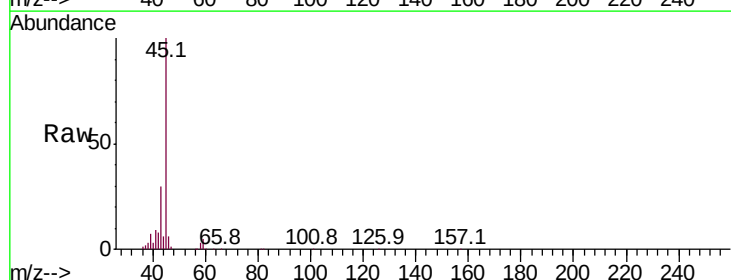
Instrument :
MSVOA_L
ClientSampleId :

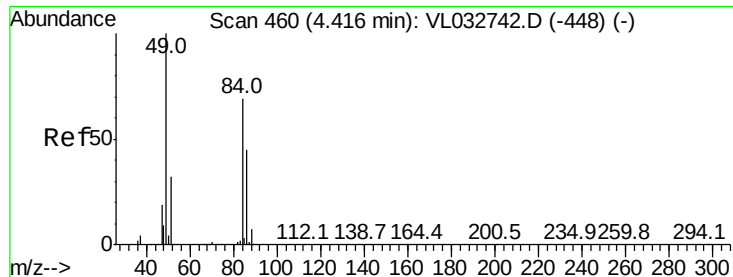
Tot Ion: 39 Resp: 17902
Ion Ratio Lower Upper
39 100
54 48.4 68.9 103.3#



#19
Isopropyl Alcohol
Concen: 4.034 ppbv
RT: 4.04 min Scan# 344
Delta R.T. 0.01 min
Lab File: VL032786.D
Acq: 20 Nov 2018 20:06

Tgt Ion: 45 Resp: 321159
Ion Ratio Lower Upper
45 100
58 115.9 1.4 2.0#

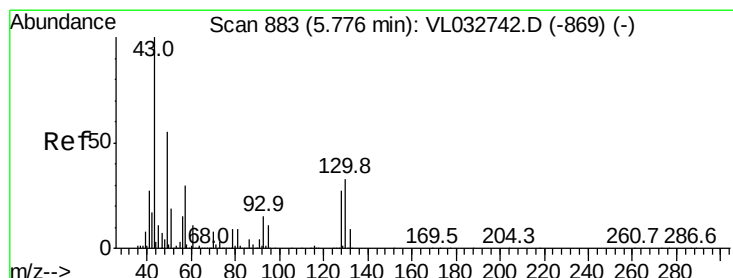
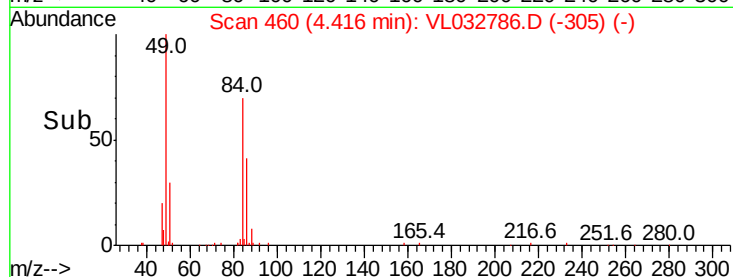
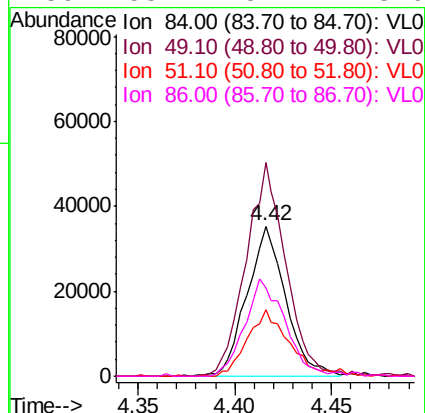
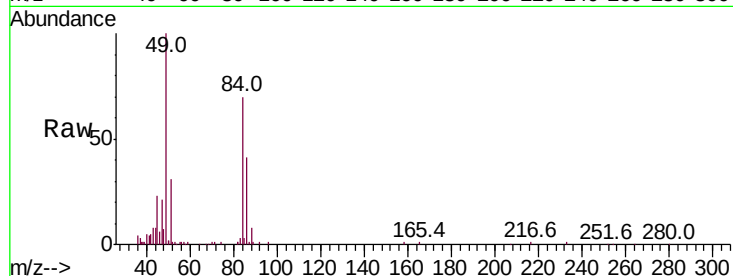




#20
Methvlene Chloride
Concen: 0.800 ppbv
RT: 4.42 min Scan# 460
Delta R.T. -0.00 min
Lab File: VL032786.D
Acq: 20 Nov 2018 20:06

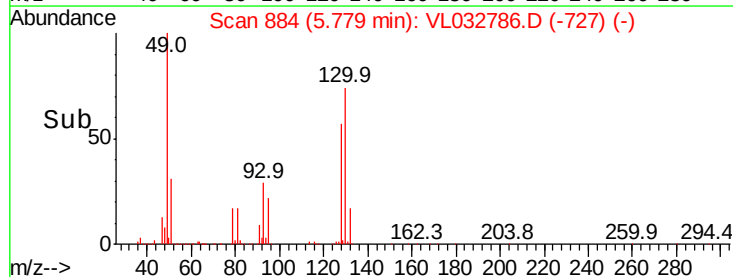
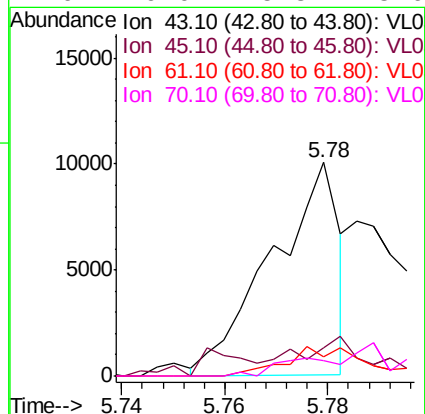
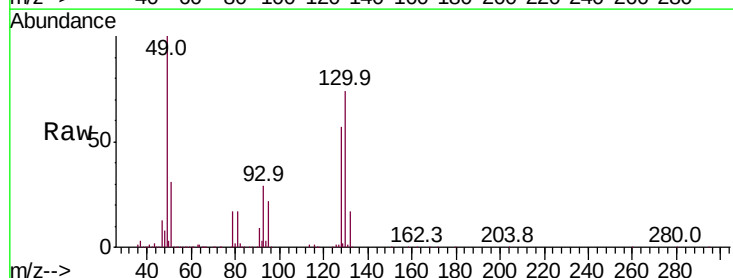
Instrument :
MSVOA_L
ClientSampleId :

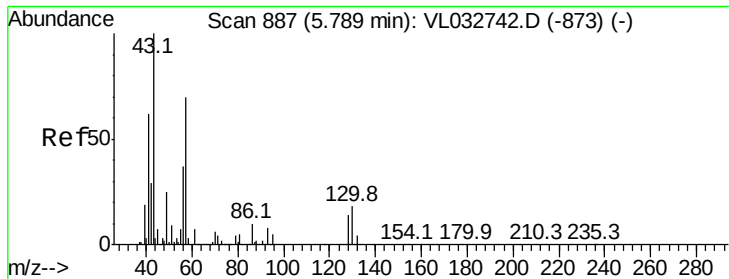
Tot Ion:	84	Resp:	49499
Ion	Ratio	Lower	Upper
84	100		
49	145.6	115.8	173.6
51	44.3	36.9	55.3
86	58.7	52.4	78.6



#25
Ethyl Acetate
Concen: 0.033 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.00 min
Lab File: VL032786.D
Acq: 20 Nov 2018 20:06

Tgt Ion:	43	Resp:	9123
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.9	11.9#
61	17.3	7.8	11.6#
70	0.0	5.8	8.6#





#26

Hexane

Concen: 0.041 ppbv

RT: 5.79 min Scan# 887

Delta R.T. -0.00 min

Lab File: VL032786.D

Acq: 20 Nov 2018 20:06

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 5096

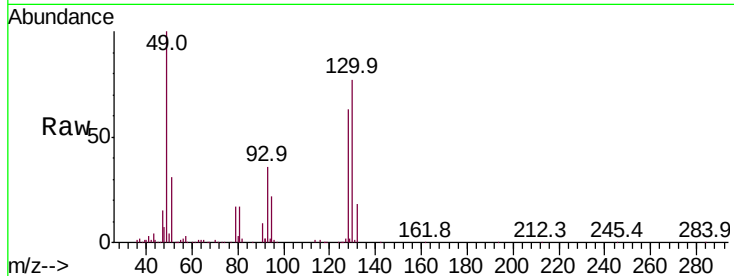
Ion Ratio Lower Upper

57 100

41 136.6 70.3 105.5#

43 356.9 174.0 261.0#

56 87.2 42.3 63.5#

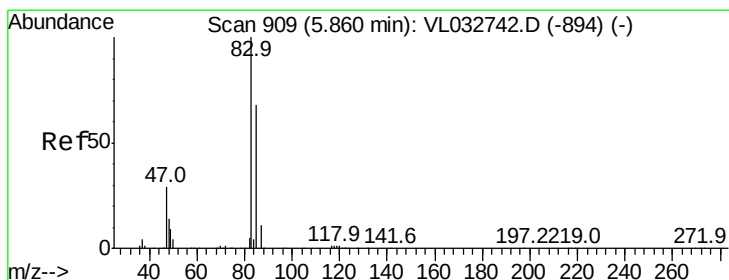
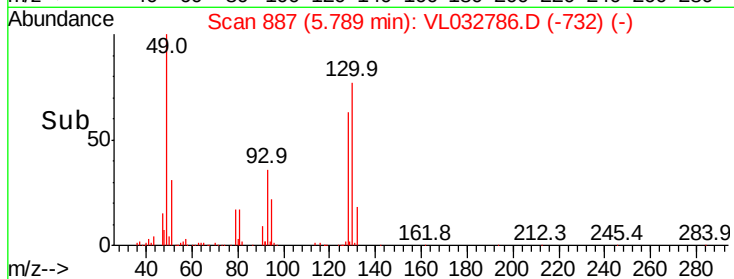
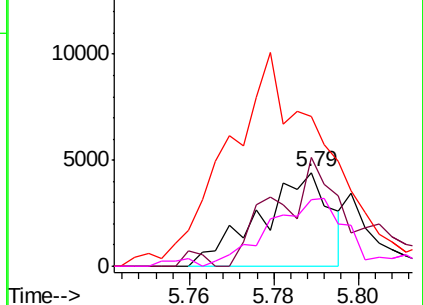


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#29

Chloroform

Concen: 0.265 ppbv

RT: 5.85 min Scan# 907

Delta R.T. -0.01 min

Lab File: VL032786.D

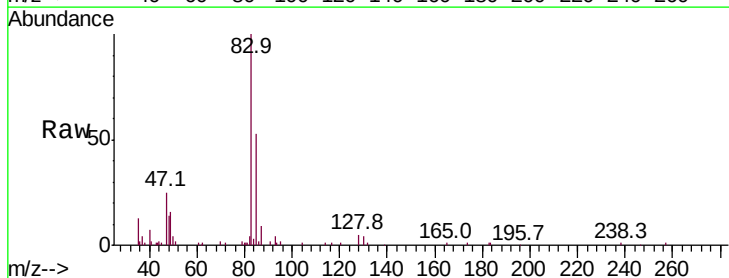
Acq: 20 Nov 2018 20:06

Tgt Ion: 83 Resp: 58623

Ion Ratio Lower Upper

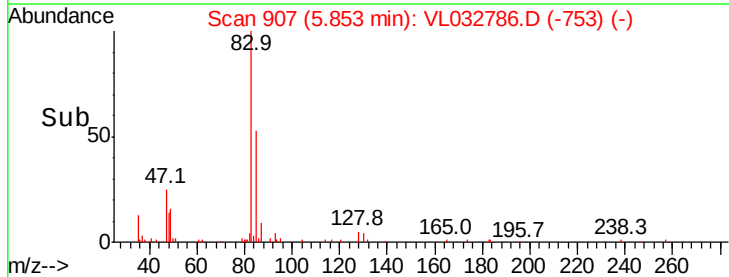
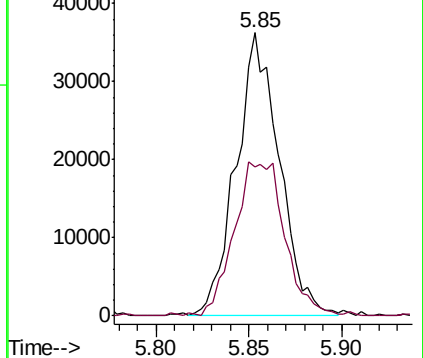
83 100

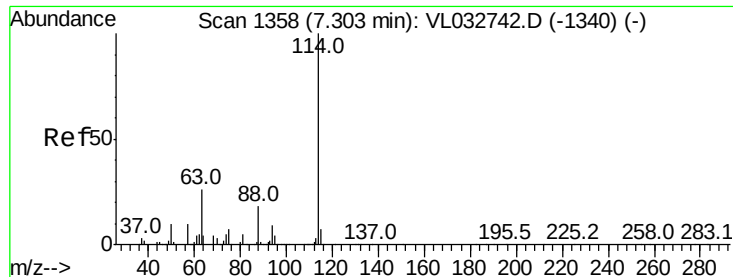
85 52.4 54.2 81.4#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

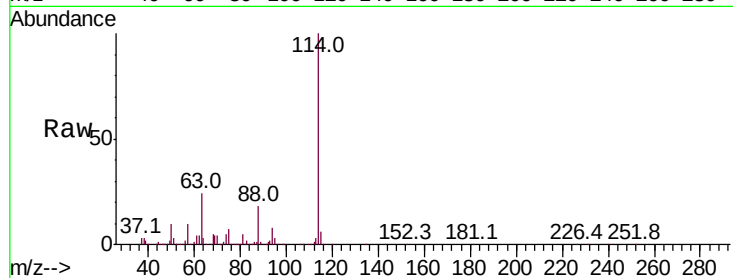




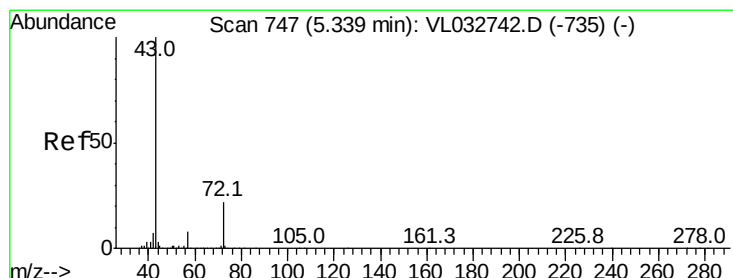
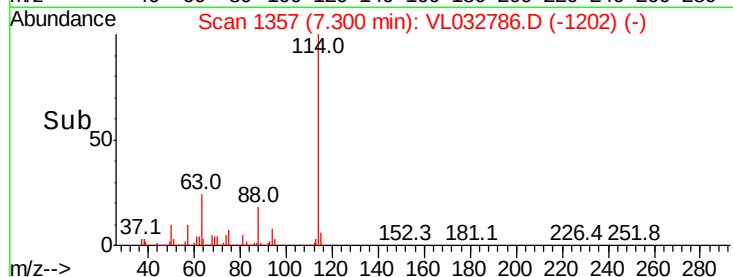
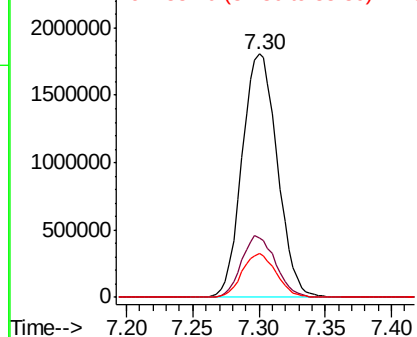
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1357
 Delta R.T. -0.00 min
 Lab File: VL032786.D
 Acq: 20 Nov 2018 20:06

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 3337936
 Ion Ratio Lower Upper
 114 100
 63 24.5 20.9 31.3
 88 17.5 14.4 21.6

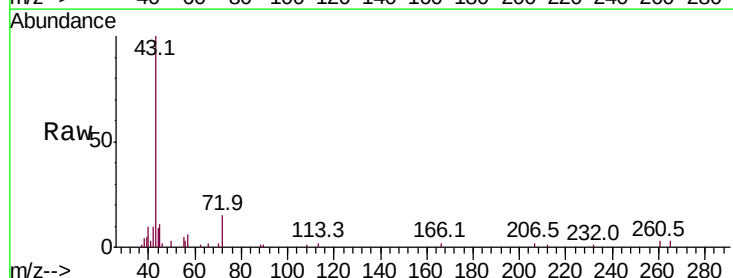


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

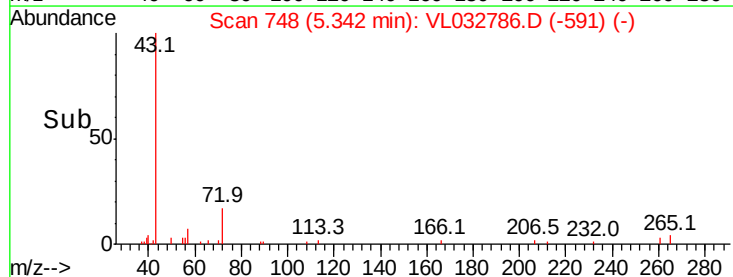
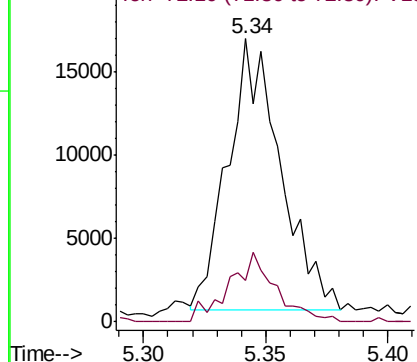


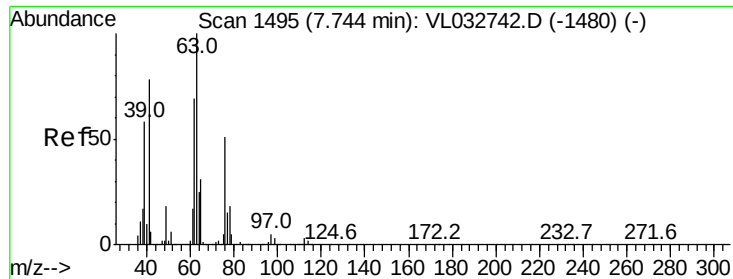
#34
 2-Butanone
 Concen: 0.141 ppbv
 RT: 5.34 min Scan# 748
 Delta R.T. 0.00 min
 Lab File: VL032786.D
 Acq: 20 Nov 2018 20:06

Tgt Ion: 43 Resp: 24337
 Ion Ratio Lower Upper
 43 100
 72 22.9 18.4 27.6



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





#39

1,2-Dichloropropane

Concen: 8.050 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. -0.45 min

Lab File: VL032786.D

Acq: 20 Nov 2018 20:06

Instrument :

MSVOA_L

ClientSampleId :

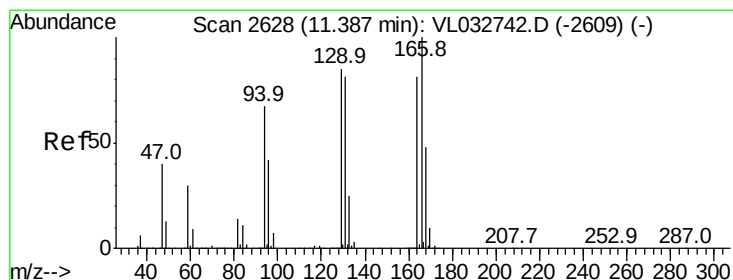
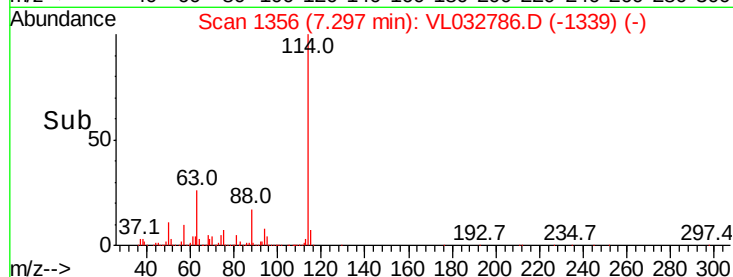
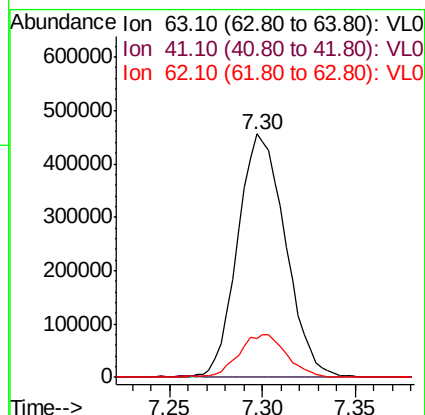
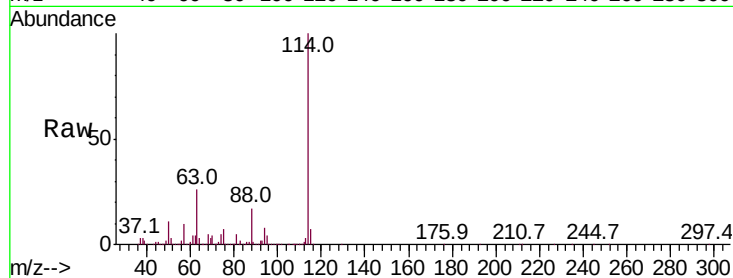
Tot Ion: 63 Resp: 815271

Ion Ratio Lower Upper

63 100

41 0.0 62.0 93.0#

62 16.0 55.4 83.2#



#52

Tetrachloroethene

Concen: 0.160 ppbv

RT: 11.38 min Scan# 2626

Delta R.T. -0.01 min

Lab File: VL032786.D

Acq: 20 Nov 2018 20:06

Tgt Ion:164 Resp: 14815

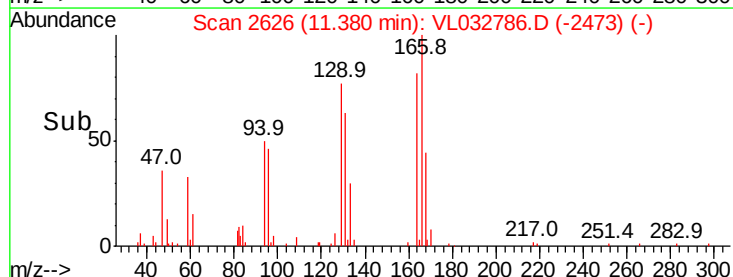
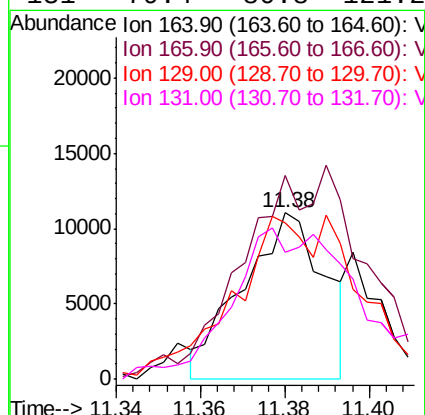
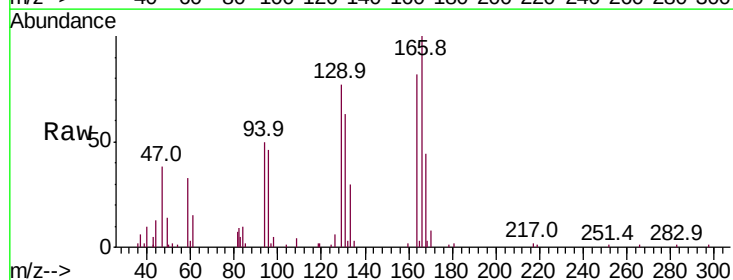
Ion Ratio Lower Upper

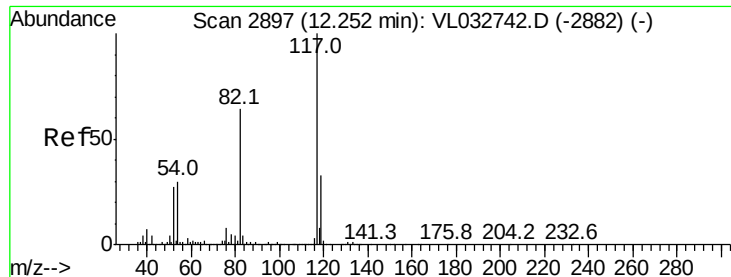
164 100

166 129.6 99.3 148.9

129 90.0 83.9 125.9

131 79.4 80.8 121.2#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2896

Delta R.T. -0.00 min

Lab File: VL032786.D

Acq: 20 Nov 2018 20:06

Instrument :

MSVOA_L

ClientSampleId :

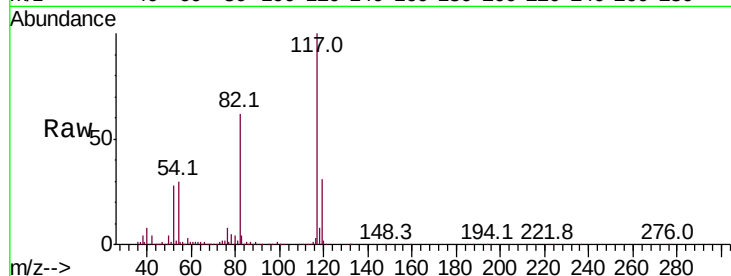
Tot Ion:117 Resp: 2952636

Ion Ratio Lower Upper

117 100

82 63.9 51.0 76.6

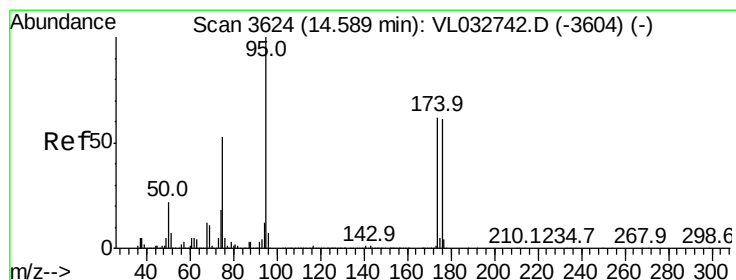
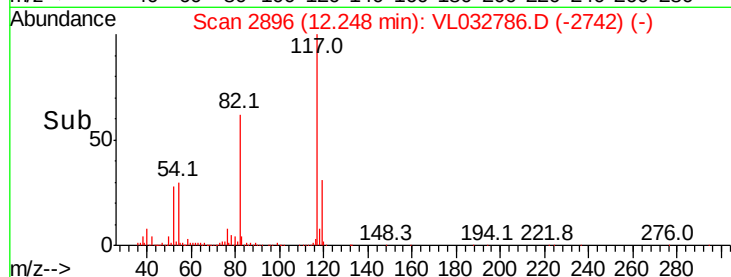
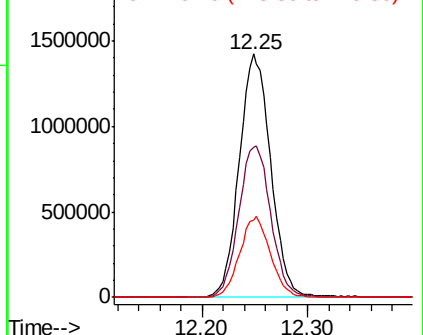
119 32.3 28.0 42.0



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: 9.743 ppbv

RT: 14.59 min Scan# 3624

Delta R.T. -0.00 min

Lab File: VL032786.D

Acq: 20 Nov 2018 20:06

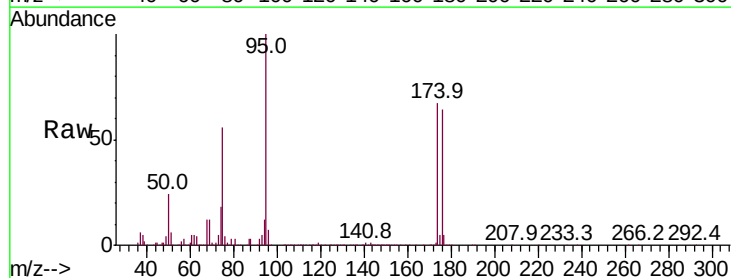
Tgt Ion: 95 Resp: 2151563

Ion Ratio Lower Upper

95 100

174 66.7 50.7 76.1

175 5.3 3.8 5.6



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

