

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060718\
 Data File : VX002386.D
 Acq On : 07 Jun 2018 19:00
 Operator : JC/MD
 Sample : J3340-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF5-0065

Quant Time: Jun 08 01:47:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 05 03:22:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	222538	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	325522	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	289781	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	152190	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	163075	51.34	ug/l	0.00
Spiked Amount			Recovery	=	102.68%	
35) Dibromofluoromethane	5.51	113	121472	47.45	ug/l	0.00
Spiked Amount			Recovery	=	94.90%	
50) Toluene-d8	8.72	98	488592	49.80	ug/l	0.00
Spiked Amount			Recovery	=	99.60%	
62) 4-Bromofluorobenzene	11.14	95	162392	42.92	ug/l	0.00
Spiked Amount			Recovery	=	85.84%	

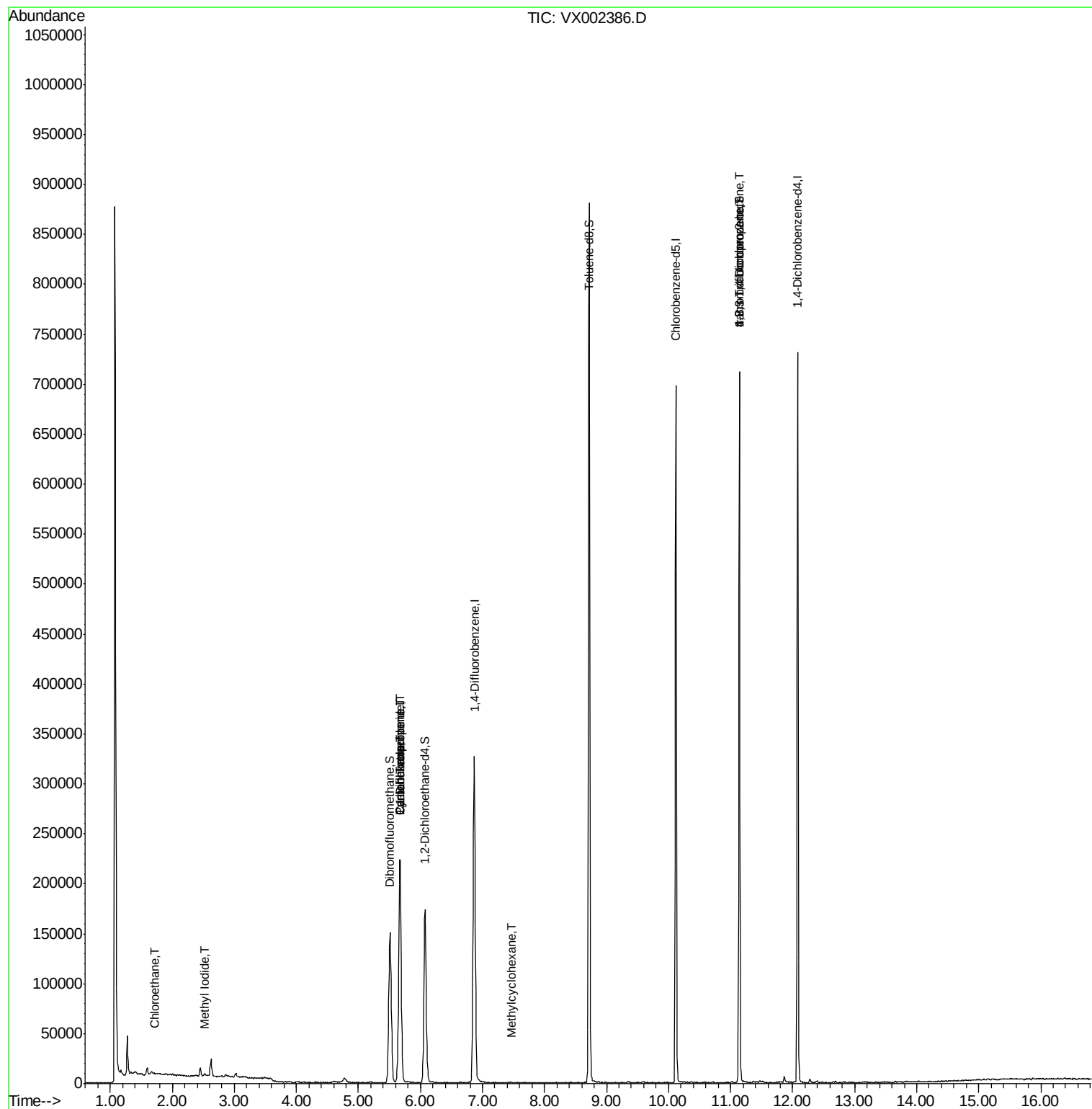
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	788	Below Cal	#	78
5) Bromomethane	1.66	94	1211	Below Cal		91
6) Chloroethane	1.72	64	588	0.31	ug/l #	74
8) Diethyl Ether	2.41	74	29	Below Cal		53
10) Methyl Iodide	2.52	142	2472	0.73	ug/l #	91
11) Tert butyl alcohol	3.02	59	2391	Below Cal	#	91
13) Acrolein	2.31	56	223	Below Cal	#	59
15) Acrylonitrile	3.17	53	367	Below Cal	#	77
16) Acetone	2.45	43	9263	Below Cal		100
18) Methyl Acetate	2.79	43	625	Below Cal	#	82
19) Methyl tert-butyl Ether	3.23	73	70	Below Cal	#	1
20) Methylene Chloride	2.86	84	868	Below Cal	#	85
22) Diisopropyl ether	3.87	45	21	Below Cal	#	54
28) Bromochloromethane	5.02	49	42	Below Cal	#	13
31) Cyclohexane	5.67	56	4744	1.18	ug/l #	13
36) 1,1-Dichloropropene	5.67	75	15899	4.65	ug/l #	50
38) Carbon Tetrachloride	5.67	117	20604	5.76	ug/l #	15
39) Methylcyclohexane	7.46	83	121	0.29	ug/l #	16
76) 1,2,3-Trichloropropane	11.14	75	88373	26.46	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	88373	92.76	ug/l #	6

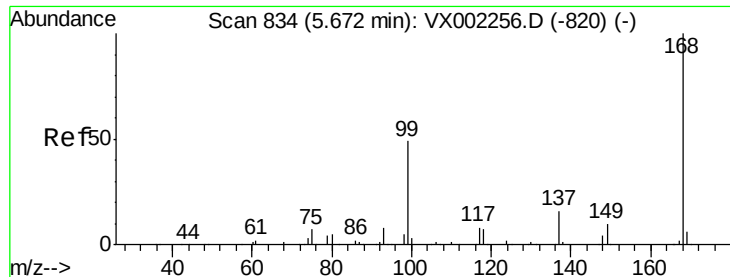
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002386.D

Acq: 07 Jun 2018 19:00

Instrument :

MSVOA_X

ClientSampleId :

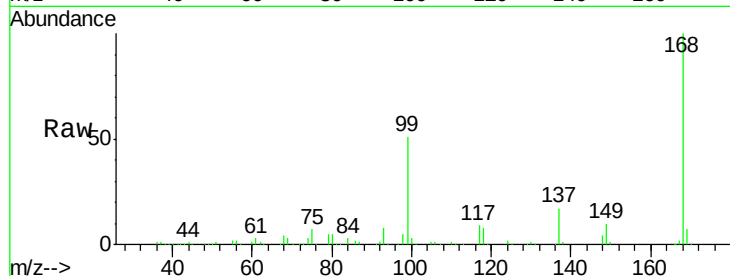
LF5-0065

Tot Ion:168 Resp: 222538

Ion Ratio Lower Upper

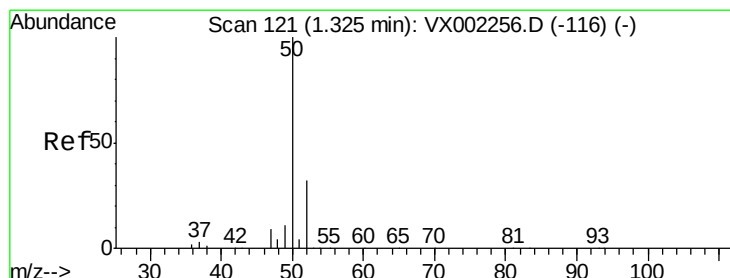
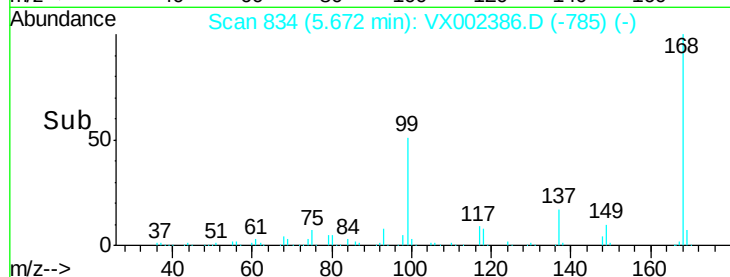
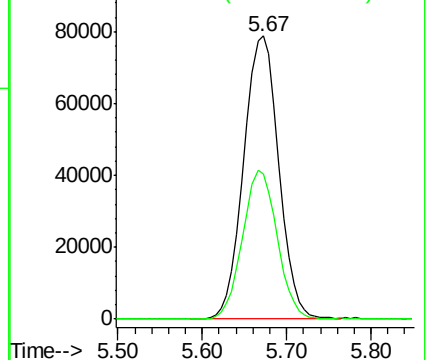
168 100

99 51.1 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002386.D

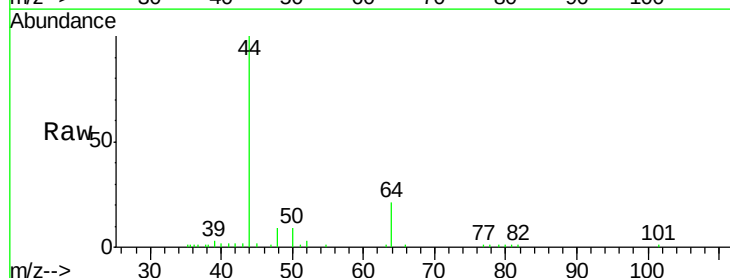
Acq: 07 Jun 2018 19:00

Tgt Ion: 50 Resp: 788

Ion Ratio Lower Upper

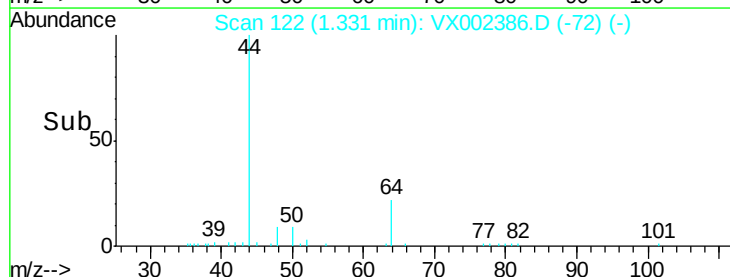
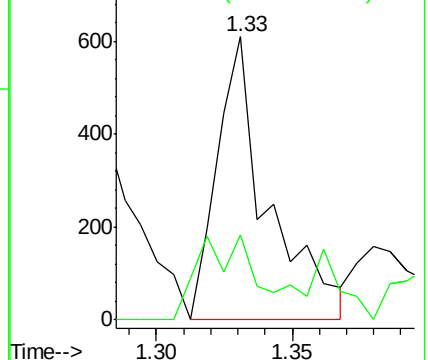
50 100

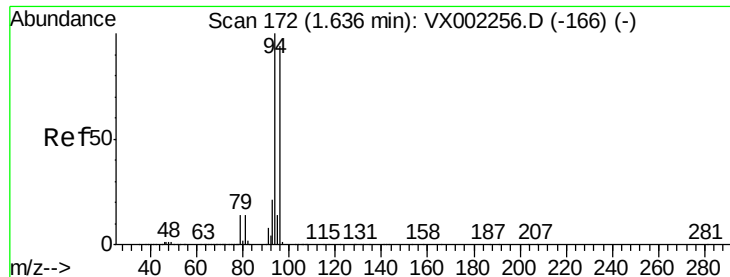
52 20.0 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX002386.D

Acq: 07 Jun 2018 19:00

Instrument :

MSVOA_X

ClientSampleId :

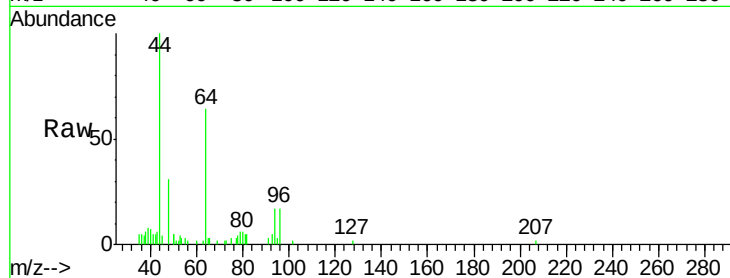
LF5-0065

Tot Ion: 94 Resp: 1211

Ion Ratio Lower Upper

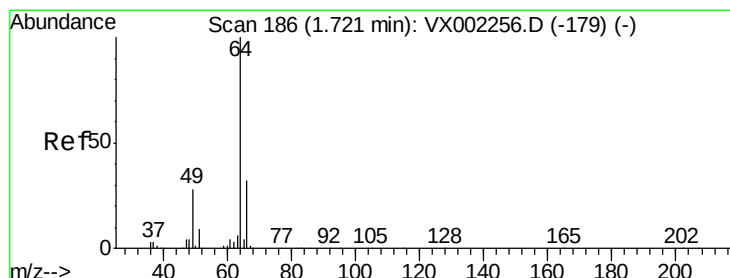
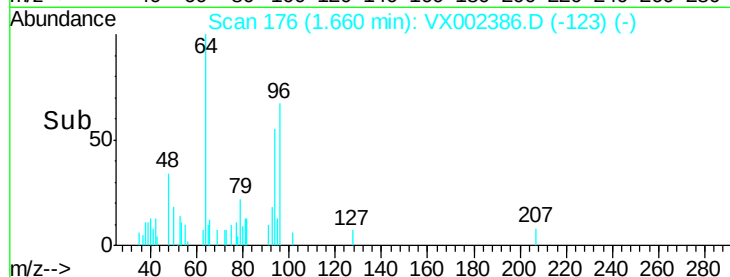
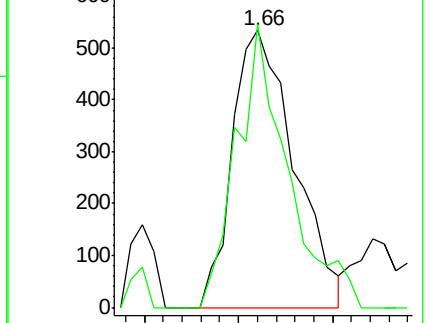
94 100

96 102.2 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.31 ug/l

RT: 1.72 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX002386.D

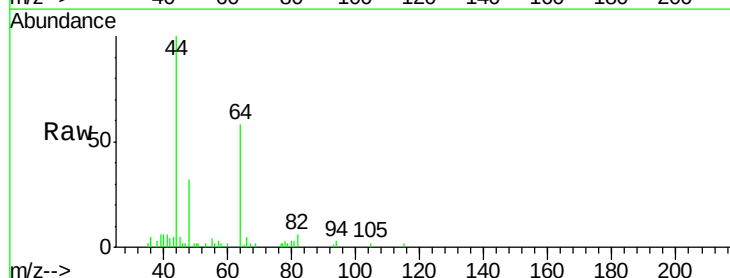
Acq: 07 Jun 2018 19:00

Tgt Ion: 64 Resp: 588

Ion Ratio Lower Upper

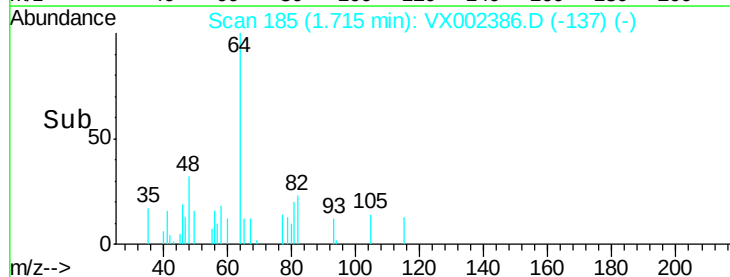
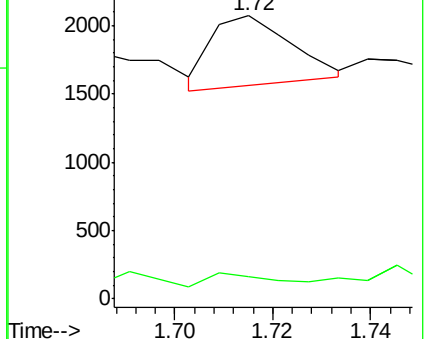
64 100

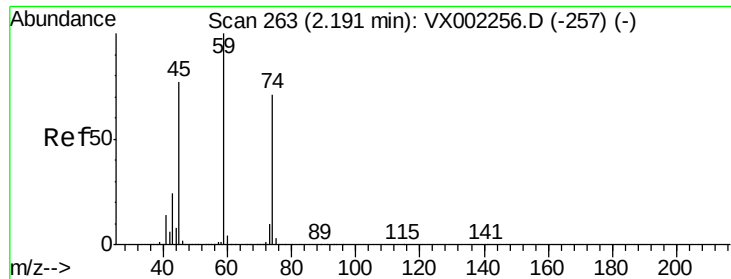
66 17.4 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#8

Diethyl Ether

Concen: Below Cal

RT: 2.41 min Scan# 299

Delta R.T. 0.22 min

Lab File: VX002386.D

Acq: 07 Jun 2018 19:00

Instrument :

MSVOA_X

ClientSampleId :

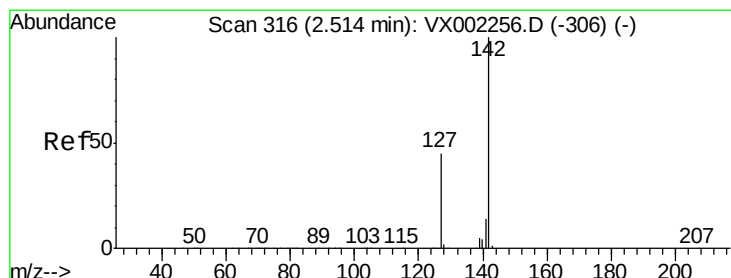
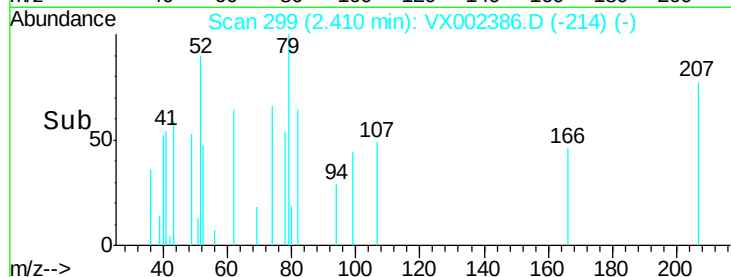
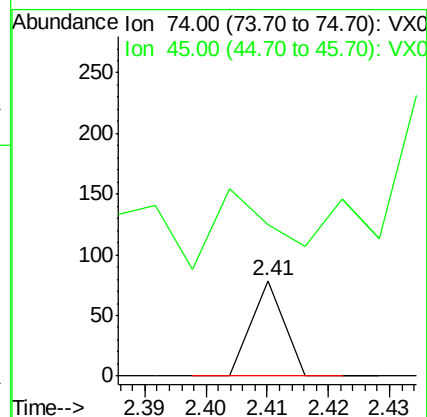
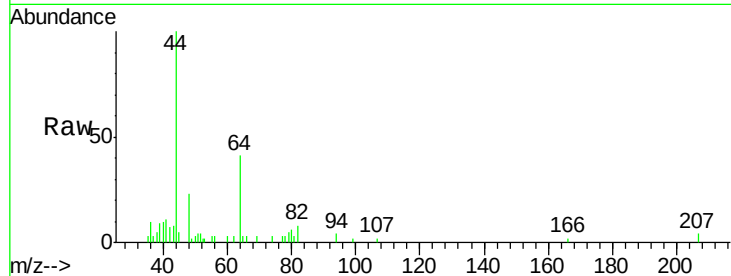
LF5-0065

Tot Ion: 74 Resp: 29

Ion Ratio Lower Upper

74 100

45 155.2 53.1 159.4



#10

Methyl Iodide

Concen: 0.73 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002386.D

Acq: 07 Jun 2018 19:00

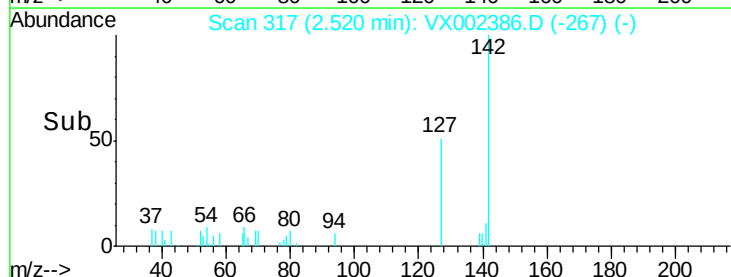
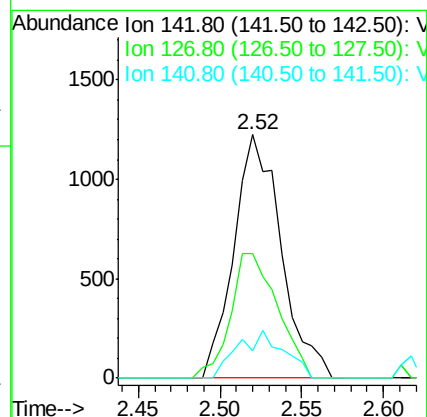
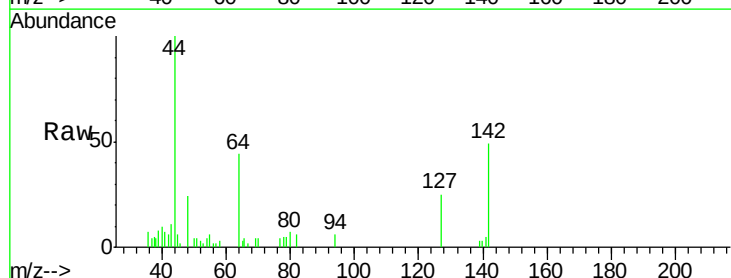
Tgt Ion: 142 Resp: 2472

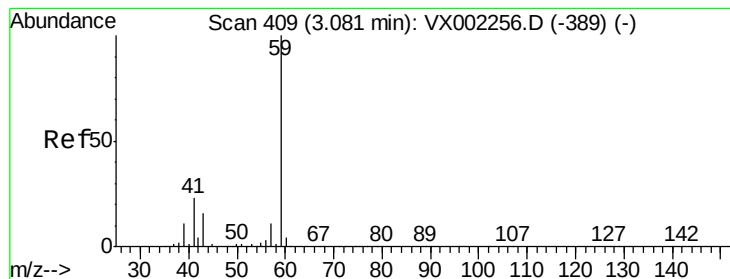
Ion Ratio Lower Upper

142 100

127 50.8 36.6 55.0

141 18.9 11.3 16.9#



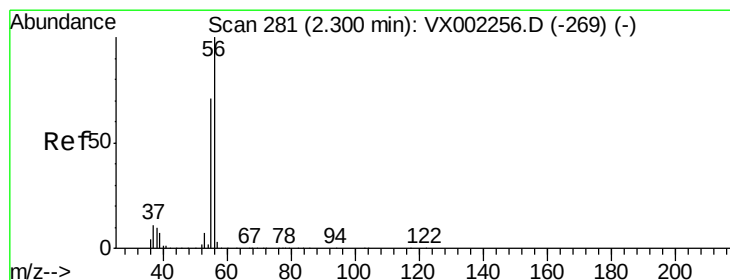
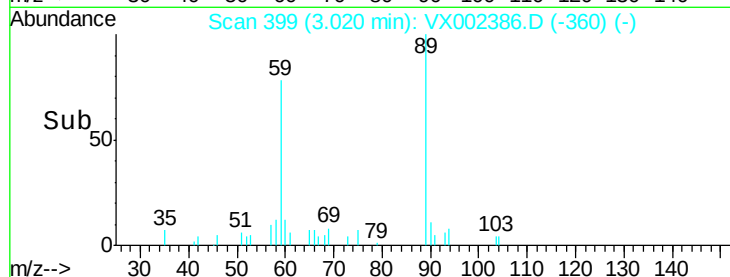
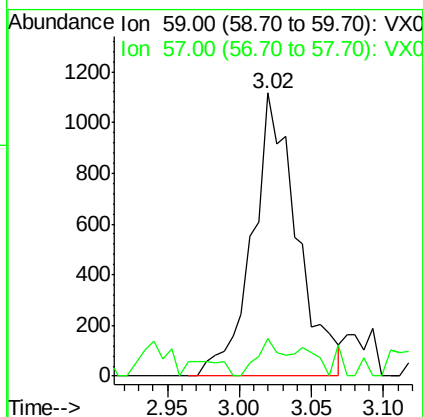
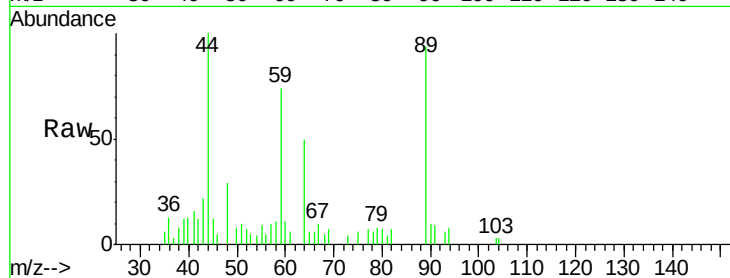


#11

Tert butyl alcohol
Concen: Below Cal
RT: 3.02 min Scan# 399
Delta R.T. -0.06 min
Lab File: VX002386.D
Acq: 07 Jun 2018 19:00

Instrument :
MSVOA_X
ClientSampleId :
LF5-0065

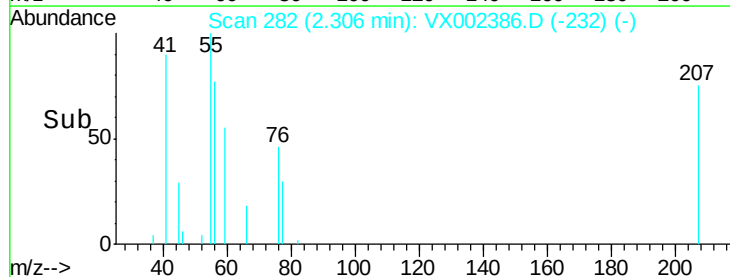
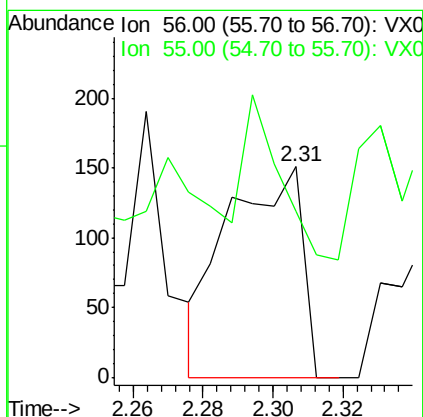
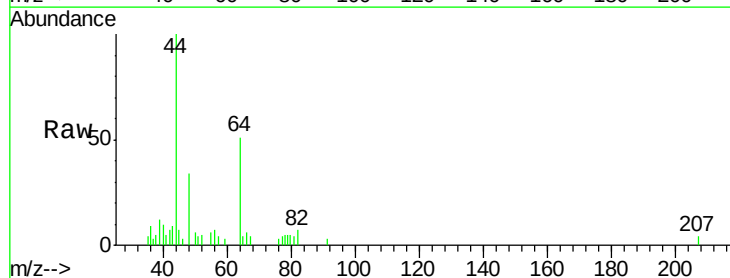
Tot Ion: 59 Resp: 2391
Ion Ratio Lower Upper
59 100
57 7.0 8.2 12.2#

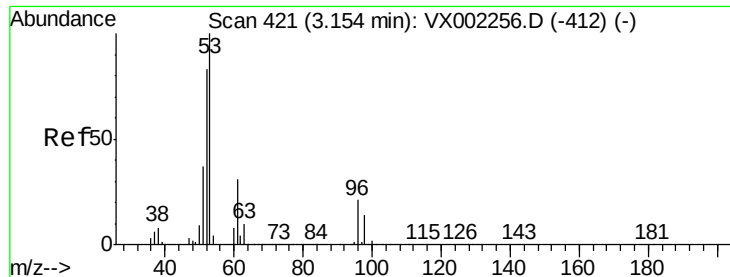


#13

Acrolein
Concen: Below Cal
RT: 2.31 min Scan# 282
Delta R.T. 0.01 min
Lab File: VX002386.D
Acq: 07 Jun 2018 19:00

Tgt Ion: 56 Resp: 223
Ion Ratio Lower Upper
56 100
55 37.2 57.0 85.4#





#15

Acrylonitrile

Concen: Below Cal

RT: 3.17 min Scan# 423

Delta R.T. 0.01 min

Lab File: VX002386.D

Acq: 07 Jun 2018 19:00

Instrument :

MSVOA_X

ClientSampled :

LF5-0065

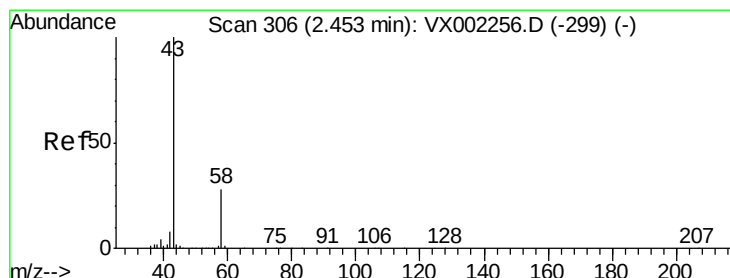
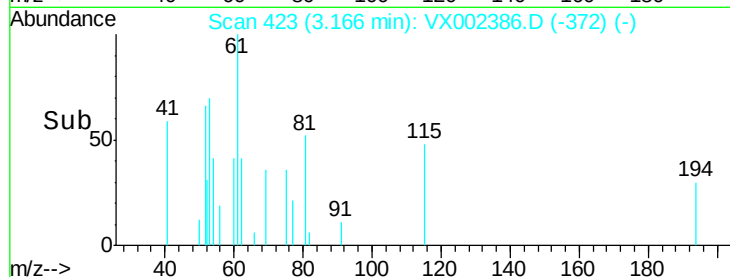
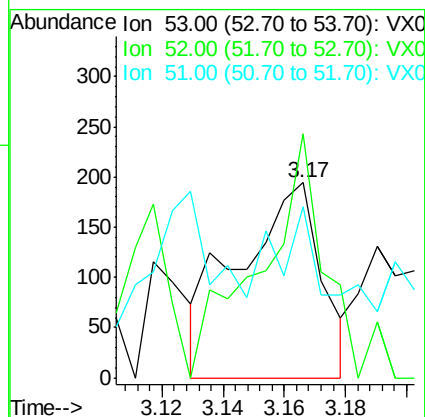
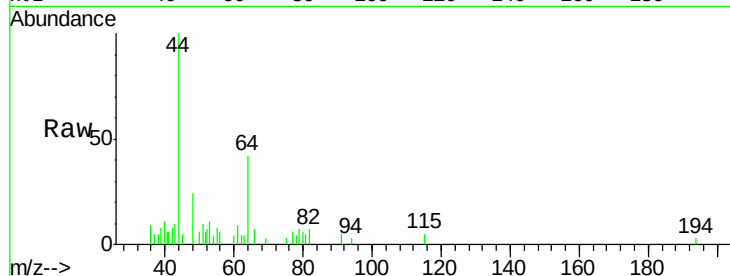
Tot Ion: 53 Resp: 367

Ion Ratio Lower Upper

53 100

52 100.0 66.7 100.1

51 18.3 29.9 44.9#



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002386.D

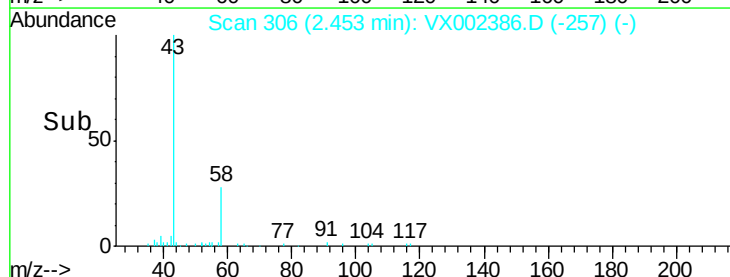
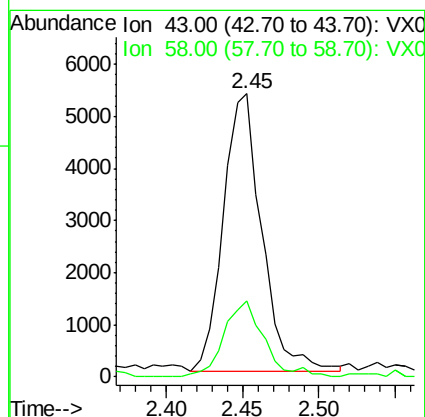
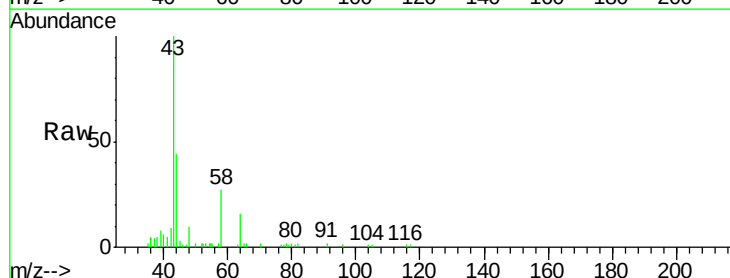
Acq: 07 Jun 2018 19:00

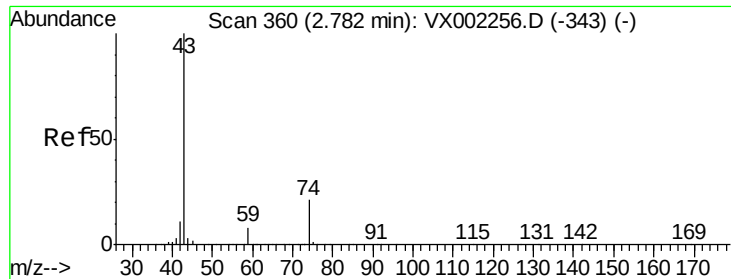
Tgt Ion: 43 Resp: 9263

Ion Ratio Lower Upper

43 100

58 27.4 22.1 33.1

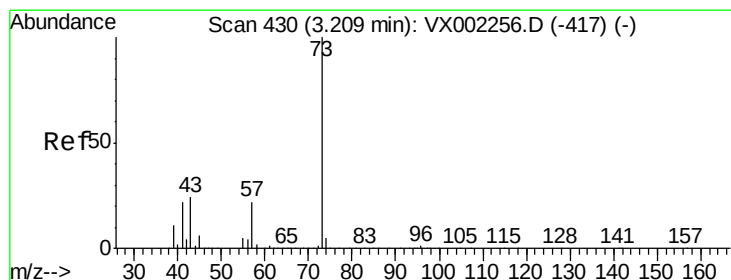
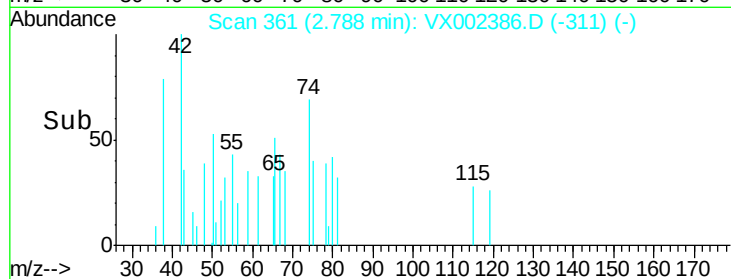
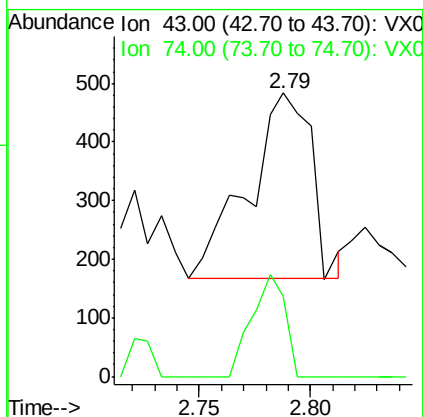
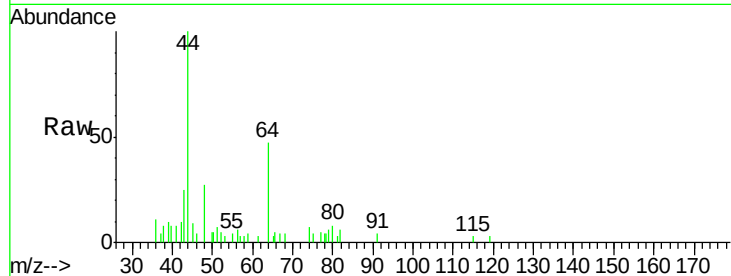




#18
Methyl Acetate
Concen: Below Cal
RT: 2.79 min Scan# 361
Delta R.T. 0.01 min
Lab File: VX002386.D
Acq: 07 Jun 2018 19:00

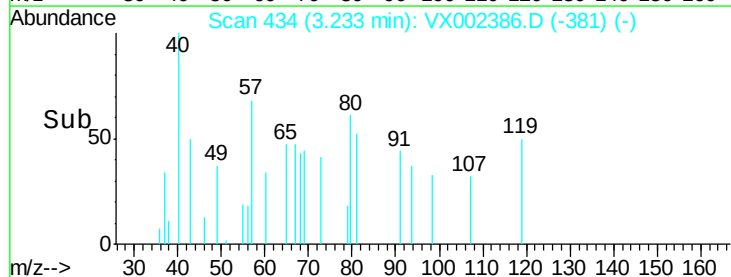
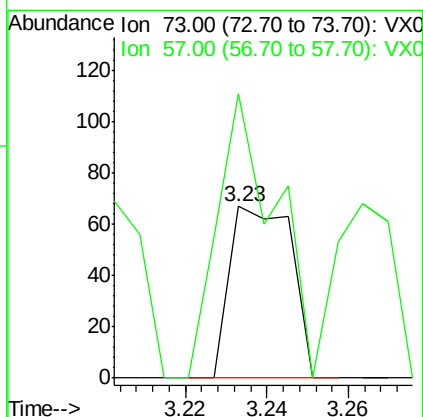
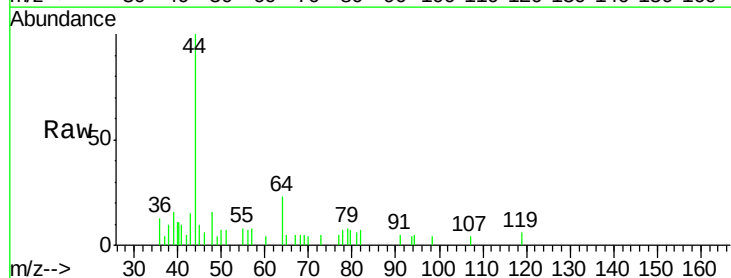
Instrument :
MSVOA_X
ClientSampled :
LF5-0065

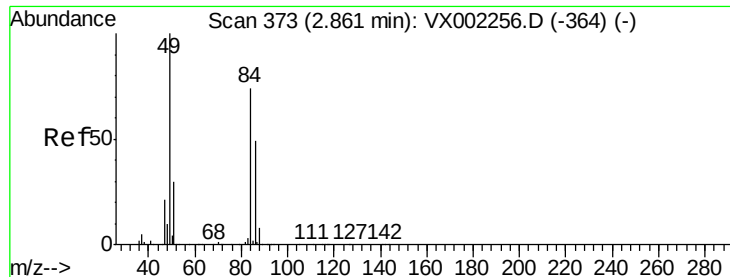
Tot Ion: 43 Resp: 625
Ion Ratio Lower Upper
43 100
74 29.3 16.7 25.1#



#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.23 min Scan# 434
Delta R.T. 0.03 min
Lab File: VX002386.D
Acq: 07 Jun 2018 19:00

Tgt Ion: 73 Resp: 70
Ion Ratio Lower Upper
73 100
57 165.7 17.7 26.5#

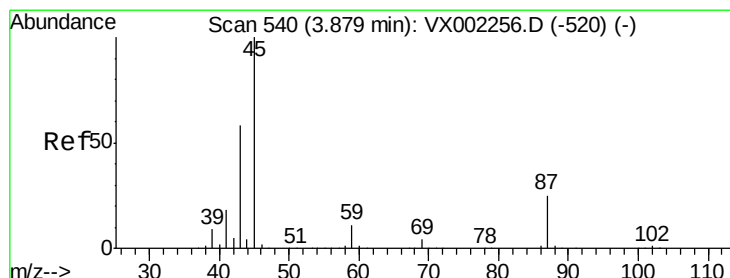
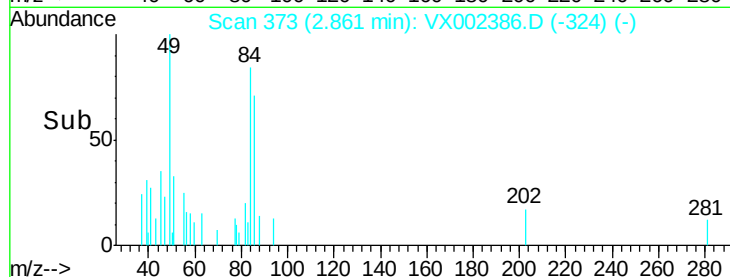
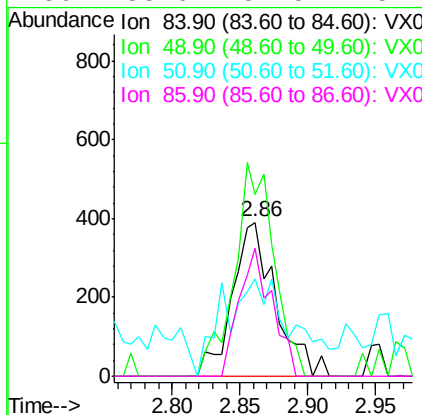
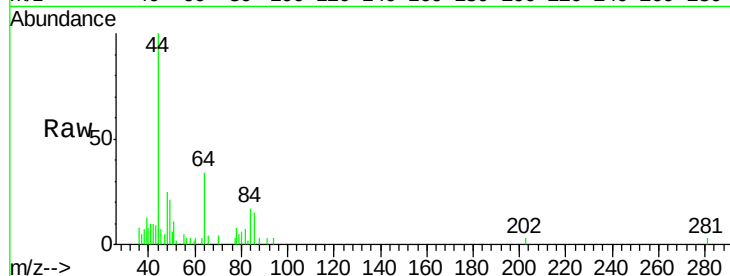




#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002386.D
Acq: 07 Jun 2018 19:00

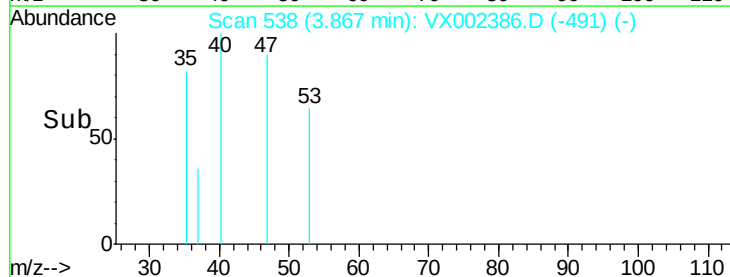
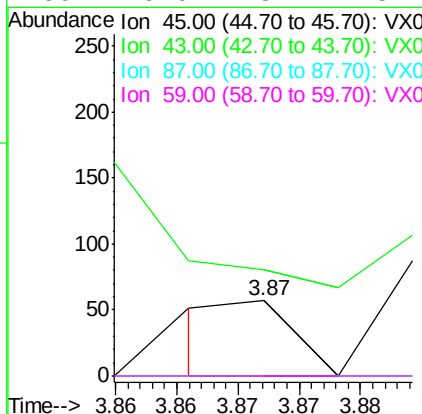
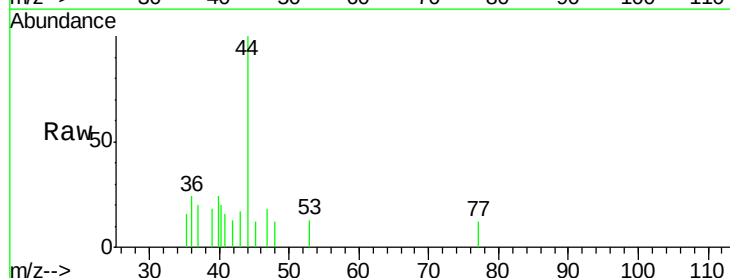
Instrument :
MSVOA_X
ClientSampled :
LF5-0065

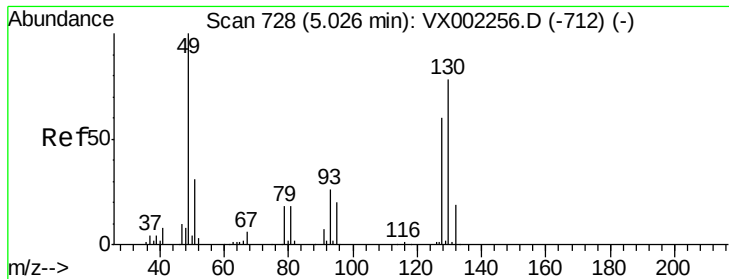
Tot Ion: 84 Resp: 868
Ion Ratio Lower Upper
84 100
49 118.5 107.8 161.6
51 45.9 32.8 49.2
86 83.6 52.5 78.7#



#22
Diisopropyl ether
Concen: Below Cal
RT: 3.87 min Scan# 538
Delta R.T. -0.01 min
Lab File: VX002386.D
Acq: 07 Jun 2018 19:00

Tgt Ion: 45 Resp: 21
Ion Ratio Lower Upper
45 100
43 22.8 46.8 70.2#
87 0.0 20.2 30.4#
59 0.0 8.7 13.1#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 727

Delta R.T. -0.01 min

Lab File: VX002386.D

Acq: 07 Jun 2018 19:00

Instrument :

MSVOA_X

ClientSampleId :

LF5-0065

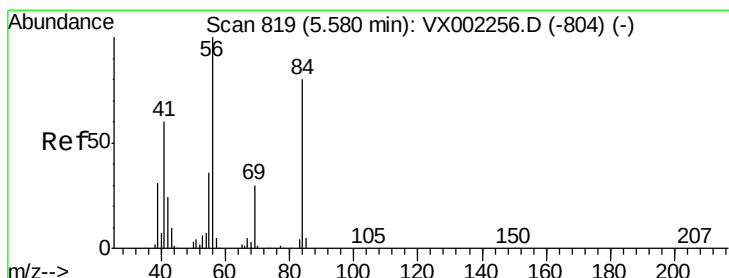
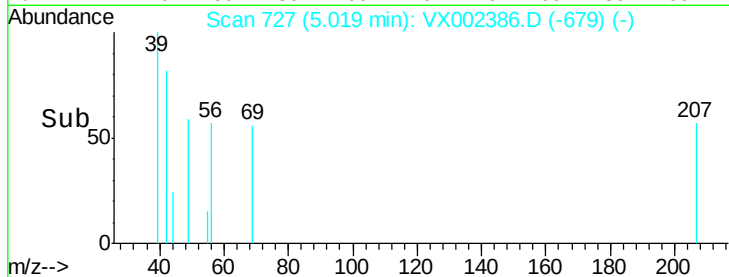
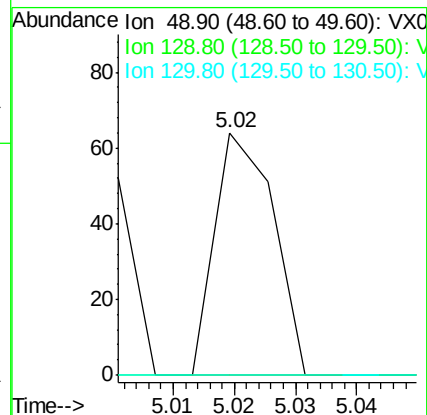
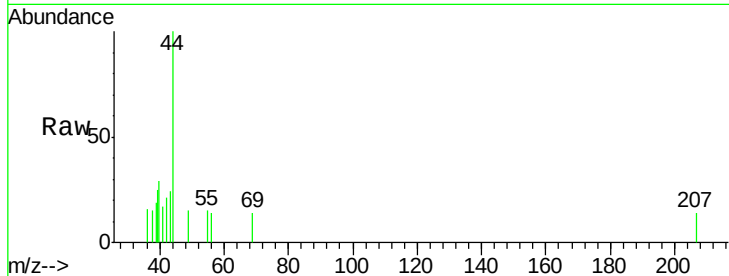
Tot Ion: 49 Resp: 42

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

130 0.0 61.2 91.8#



#31

Cyclohexane

Concen: 1.18 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX002386.D

Acq: 07 Jun 2018 19:00

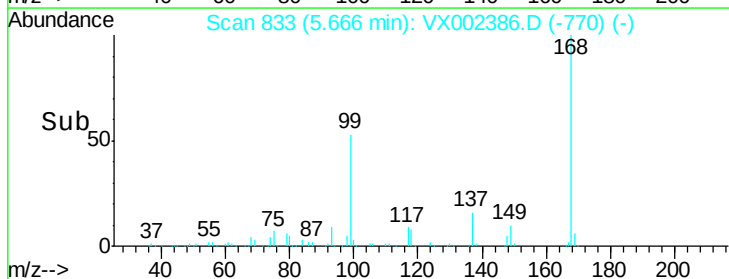
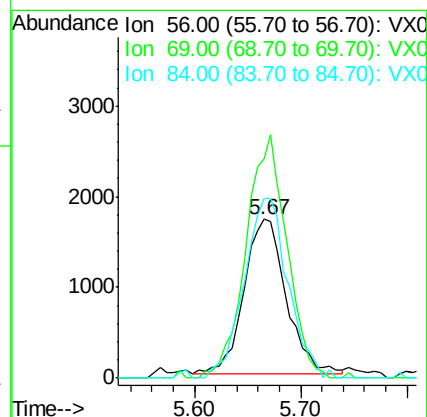
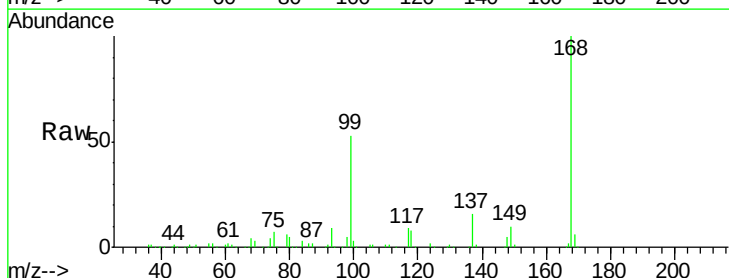
Tgt Ion: 56 Resp: 4744

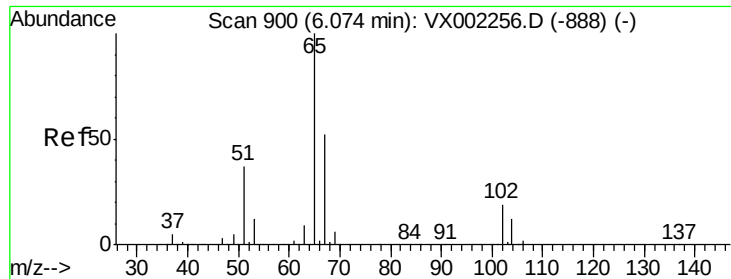
Ion Ratio Lower Upper

56 100

69 142.5 23.7 35.5#

84 117.0 64.1 96.1#

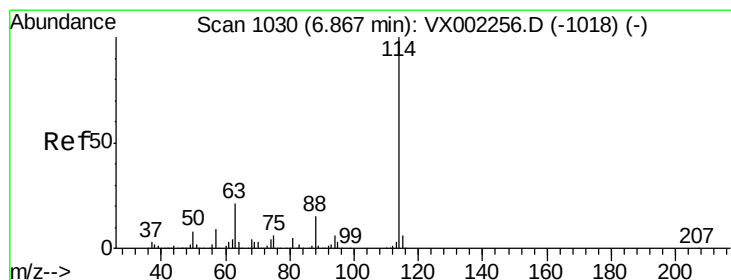
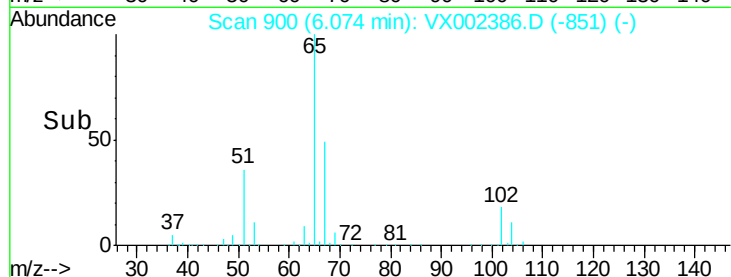
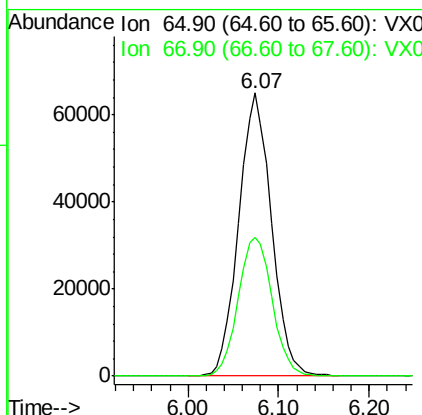
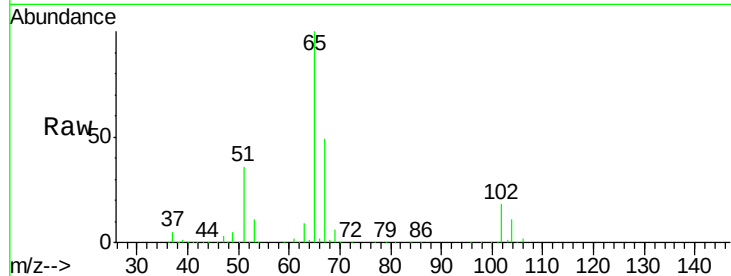




#33
 1,2-Dichloroethane-d4
 Concen: 51.34 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX002386.D
 Acq: 07 Jun 2018 19:00

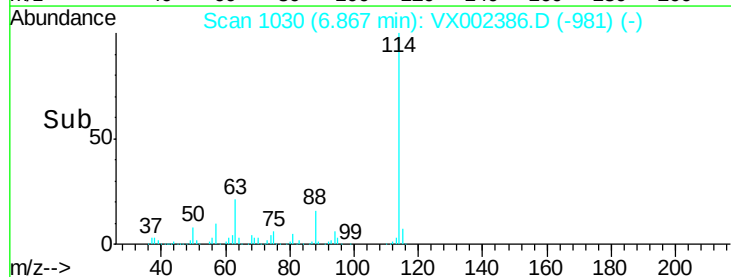
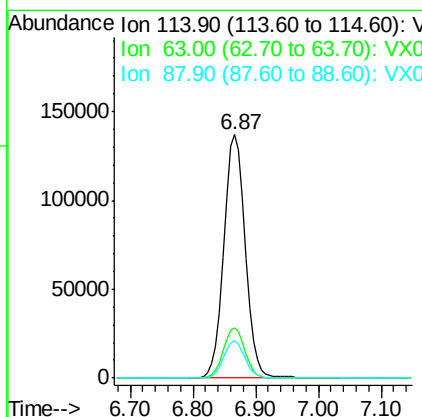
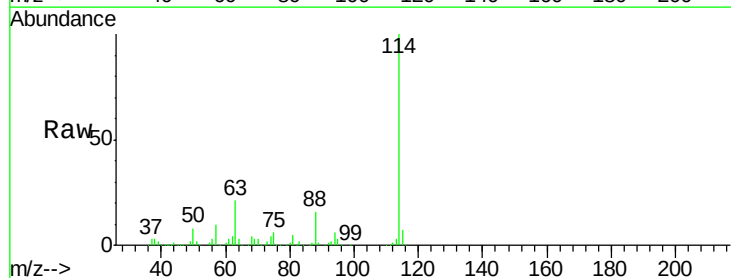
Instrument :
 MSVOA_X
 ClientSampled :
 LF5-0065

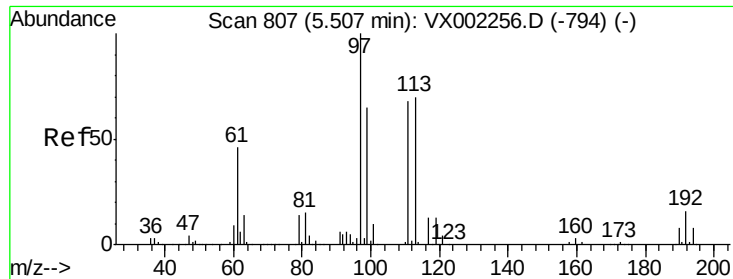
Tot Ion: 65 Resp: 163075
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002386.D
 Acq: 07 Jun 2018 19:00

Tgt Ion: 114 Resp: 325522
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 41.4
 88 15.6 0.0 30.0

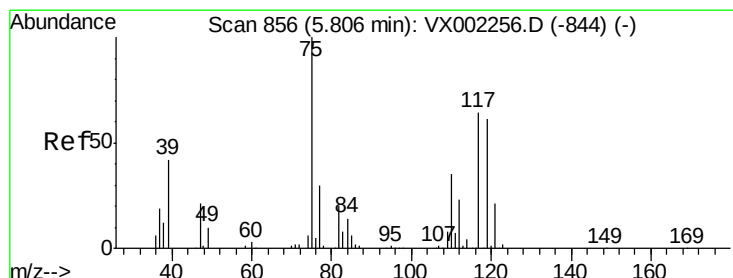
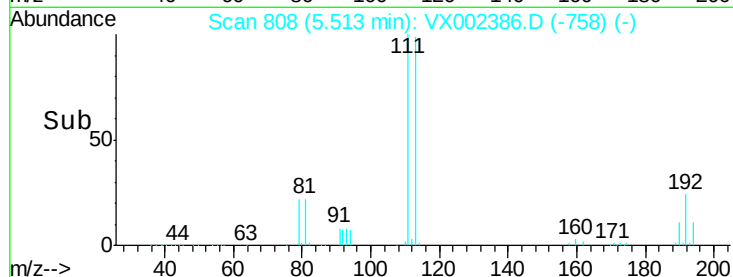
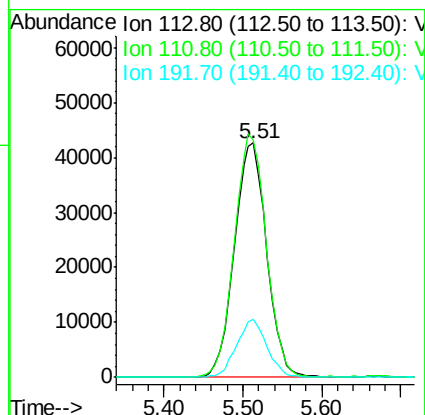
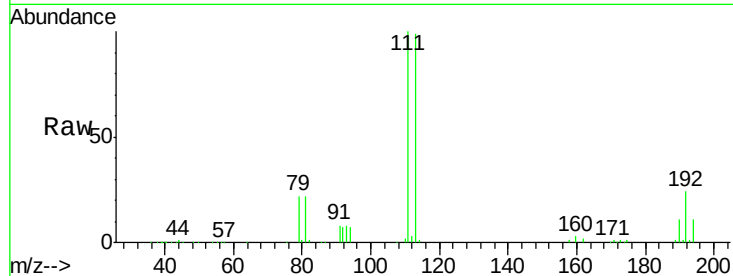




#35
Dibromofluoromethane
Concen: 47.45 ug/l
RT: 5.51 min Scan# 808
Delta R.T. 0.01 min
Lab File: VX002386.D
Acq: 07 Jun 2018 19:00

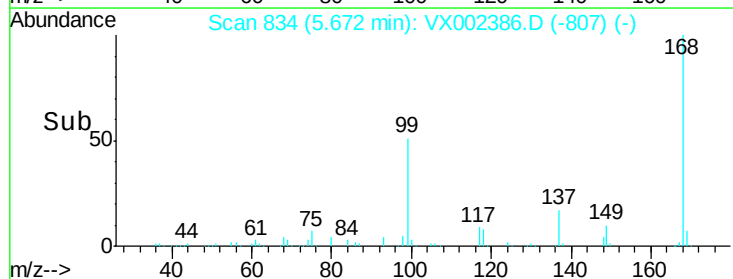
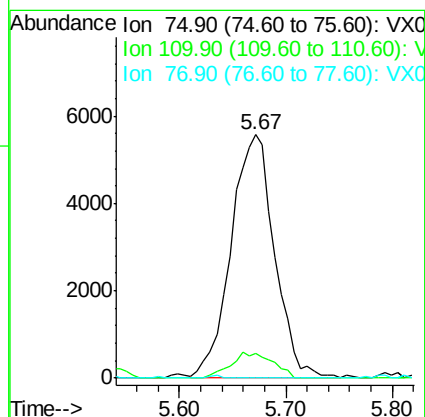
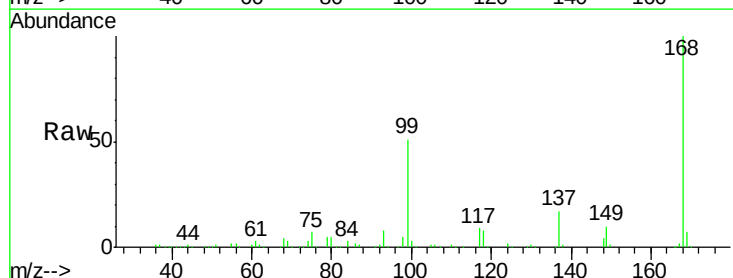
Instrument :
MSVOA_X
ClientSampled :
LF5-0065

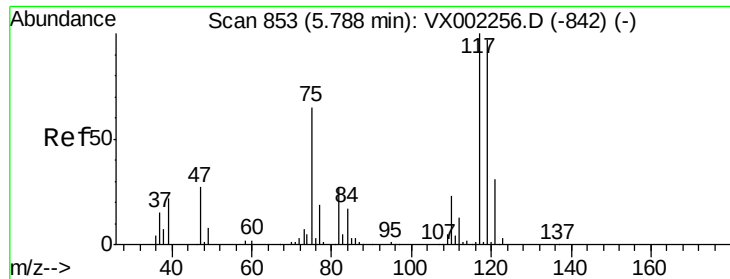
Tot Ion:113 Resp: 121472
Ion Ratio Lower Upper
113 100
111 102.9 81.4 122.0
192 23.3 19.1 28.7



#36
1,1-Dichloropropene
Concen: 4.65 ug/l
RT: 5.67 min Scan# 834
Delta R.T. -0.13 min
Lab File: VX002386.D
Acq: 07 Jun 2018 19:00

Tgt Ion: 75 Resp: 15899
Ion Ratio Lower Upper
75 100
110 10.2 18.1 54.4#
77 0.0 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 5.76 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002386.D

Acq: 07 Jun 2018 19:00

Instrument :

MSVOA_X

ClientSampled :

LF5-0065

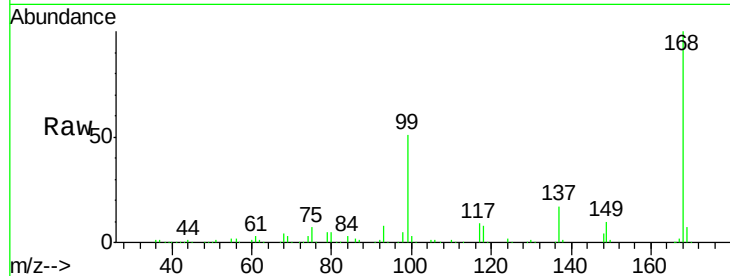
Tot Ion:117 Resp: 20604

Ion Ratio Lower Upper

117 100

119 4.5 77.4 116.0#

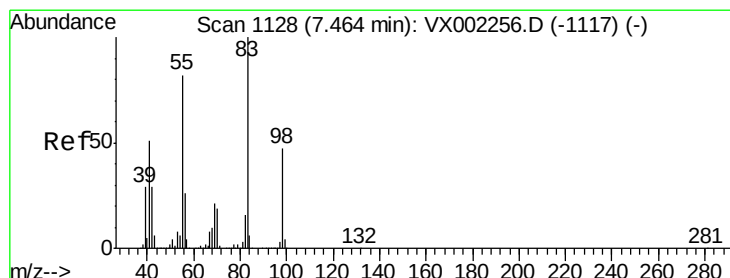
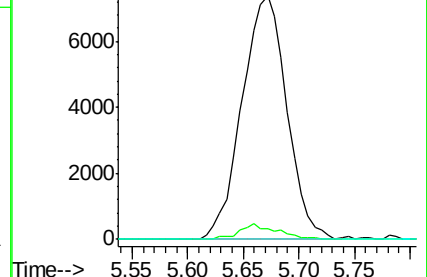
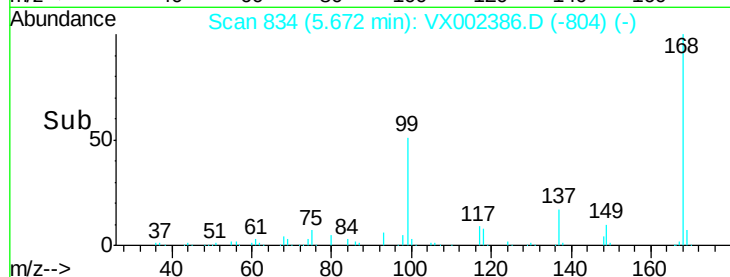
121 0.0 24.4 36.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.29 ug/l

RT: 7.46 min Scan# 1127

Delta R.T. -0.01 min

Lab File: VX002386.D

Acq: 07 Jun 2018 19:00

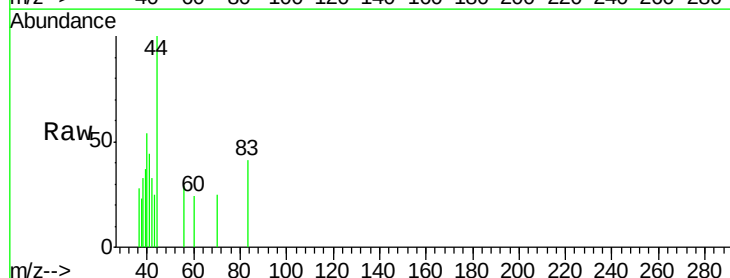
Tgt Ion: 83 Resp: 121

Ion Ratio Lower Upper

83 100

55 0.0 65.4 98.0#

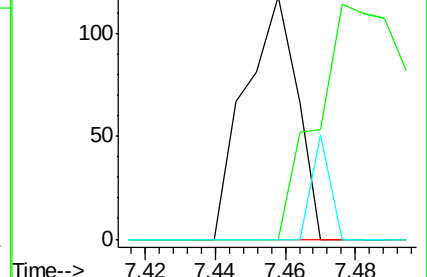
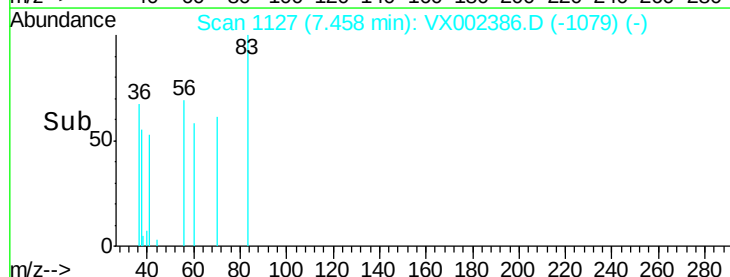
98 0.0 37.4 56.0#

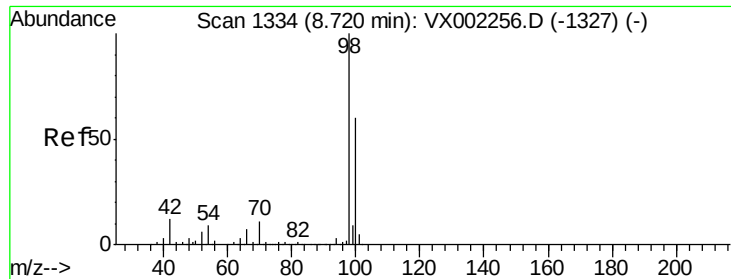


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

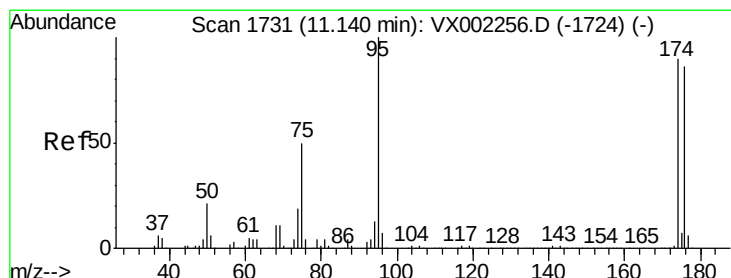
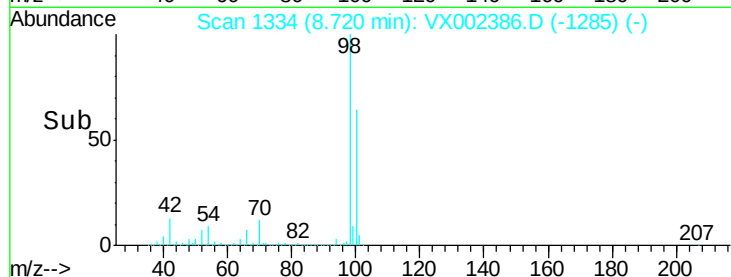
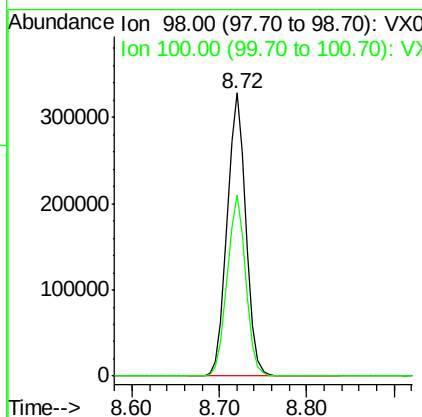
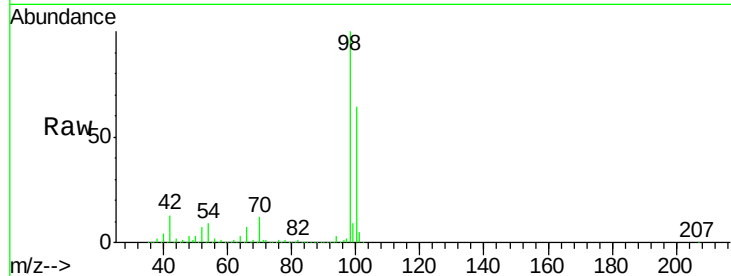




#50
Toluene-d8
Concen: 49.80 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002386.D
Acq: 07 Jun 2018 19:00

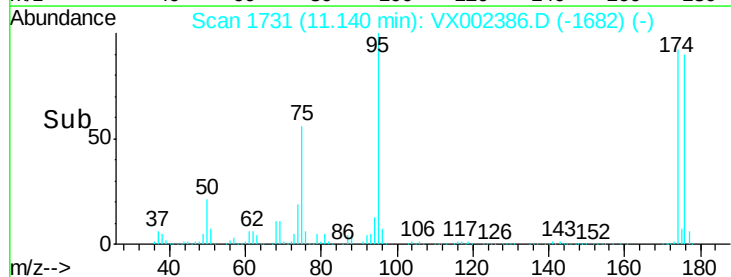
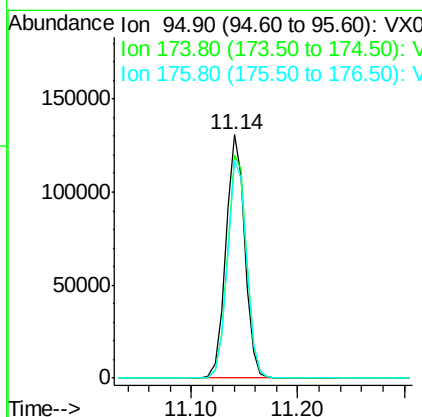
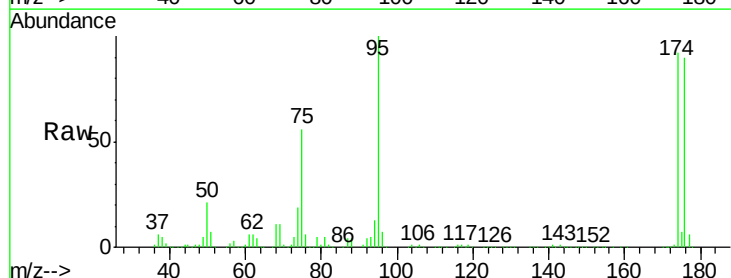
Instrument :
MSVOA_X
ClientSampleId :
LF5-0065

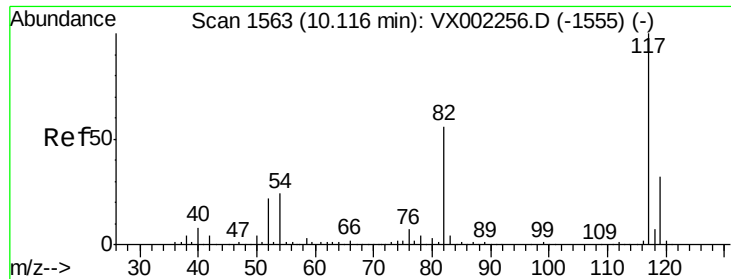
Tot Ion: 98 Resp: 488592
Ion Ratio Lower Upper
98 100
100 63.2 50.9 76.3



#62
4-Bromofluorobenzene
Concen: 42.92 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002386.D
Acq: 07 Jun 2018 19:00

Tgt Ion: 95 Resp: 162392
Ion Ratio Lower Upper
95 100
174 93.9 0.0 187.4
176 90.9 0.0 181.0

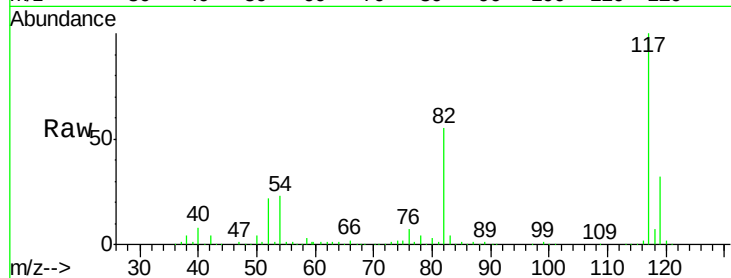




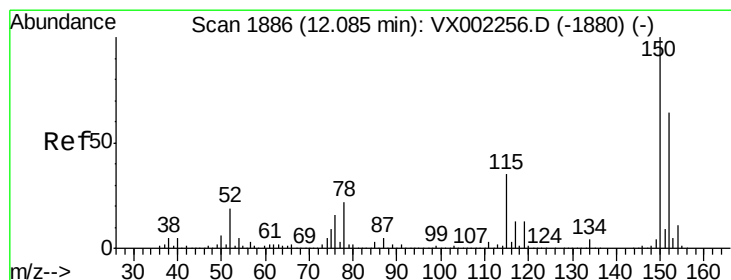
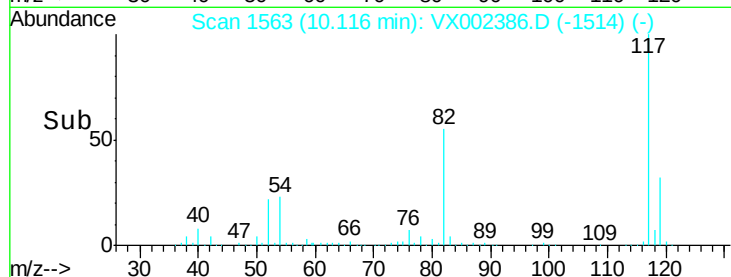
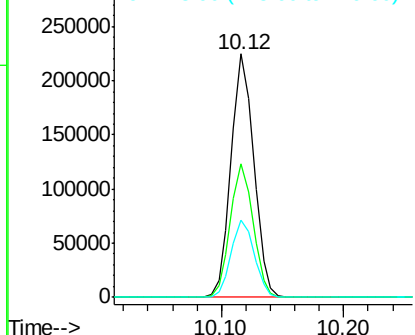
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002386.D
Acq: 07 Jun 2018 19:00

Instrument :
MSVOA_X
ClientSampleId :
LF5-0065

Tot Ion:117 Resp: 289781
Ion Ratio Lower Upper
117 100
82 54.9 45.0 67.4
119 31.8 25.8 38.6

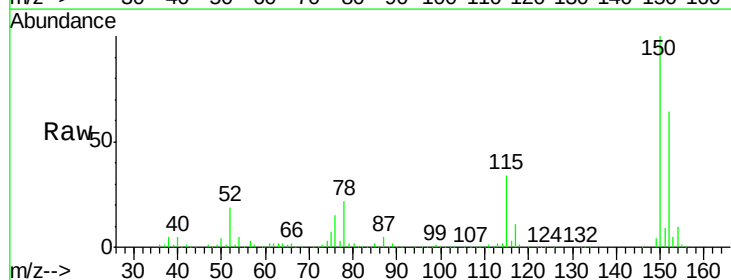


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

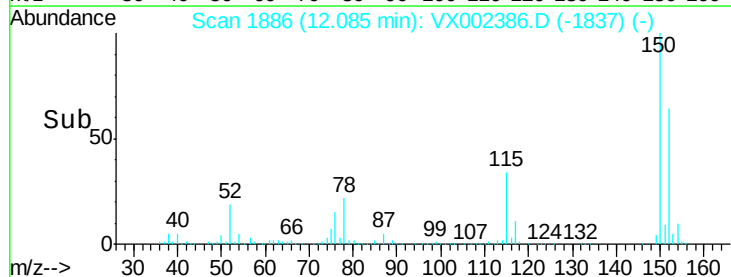
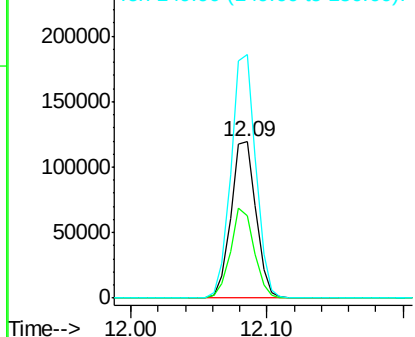


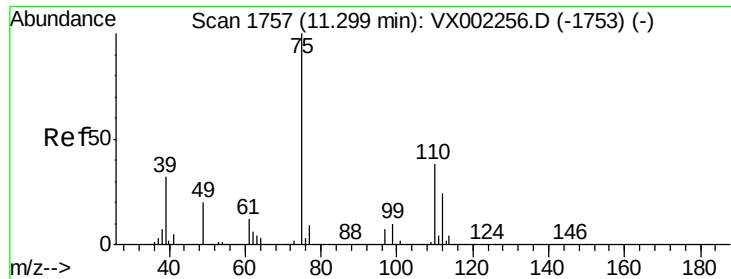
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002386.D
Acq: 07 Jun 2018 19:00

Tgt Ion:152 Resp: 152190
Ion Ratio Lower Upper
152 100
115 54.6 40.1 120.2
150 154.9 0.0 347.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.46 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002386.D

Acq: 07 Jun 2018 19:00

Instrument :

MSVOA_X

ClientSampled :

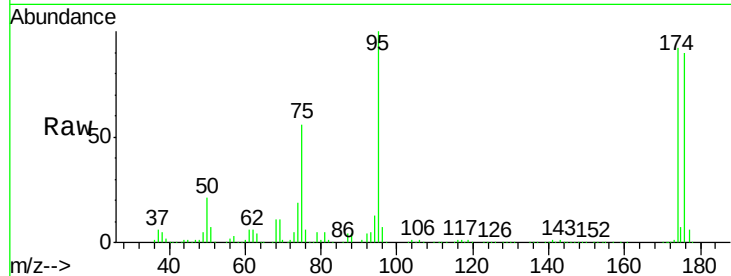
LF5-0065

Tot Ion: 75 Resp: 88373

Ion Ratio Lower Upper

75 100

77 1.2 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.14

80000

60000

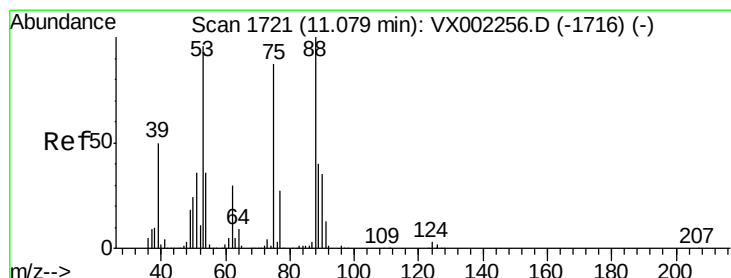
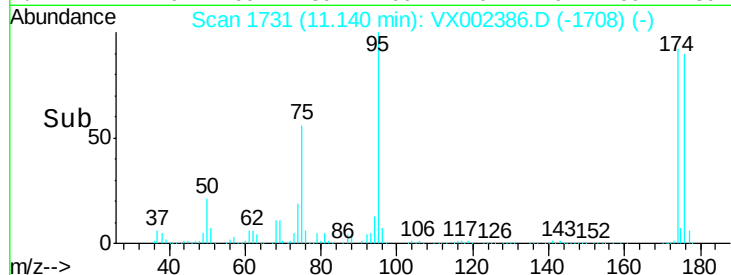
40000

20000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 92.76 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002386.D

Acq: 07 Jun 2018 19:00

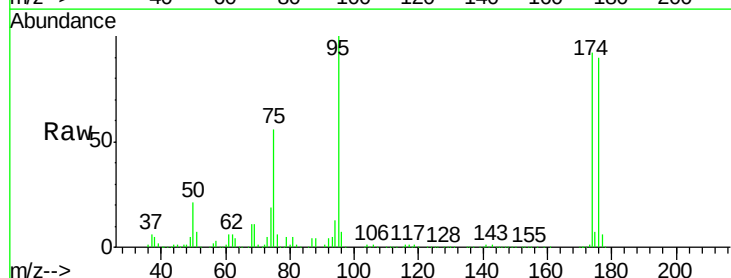
Tgt Ion: 75 Resp: 88373

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

100000

80000

60000

40000

20000

0

Time-->

11.10 11.20

