

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX042018\
 Data File : VX001027.D
 Acq On : 20 Apr 2018 23:55
 Operator : JC/MD
 Sample : J2471-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 21 05:41:01 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X041918W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 20 05:03:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	232941	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	321304	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	295601	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	189294	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	148653	50.34	ug/l	0.00
Spiked Amount			Recovery	=	100.68%	
35) Dibromofluoromethane	5.51	113	114330	46.66	ug/l	0.00
Spiked Amount			Recovery	=	93.32%	
50) Toluene-d8	8.72	98	450190	49.69	ug/l	0.00
Spiked Amount			Recovery	=	99.38%	
62) 4-Bromofluorobenzene	11.14	95	172966	45.49	ug/l	0.00
Spiked Amount			Recovery	=	90.98%	

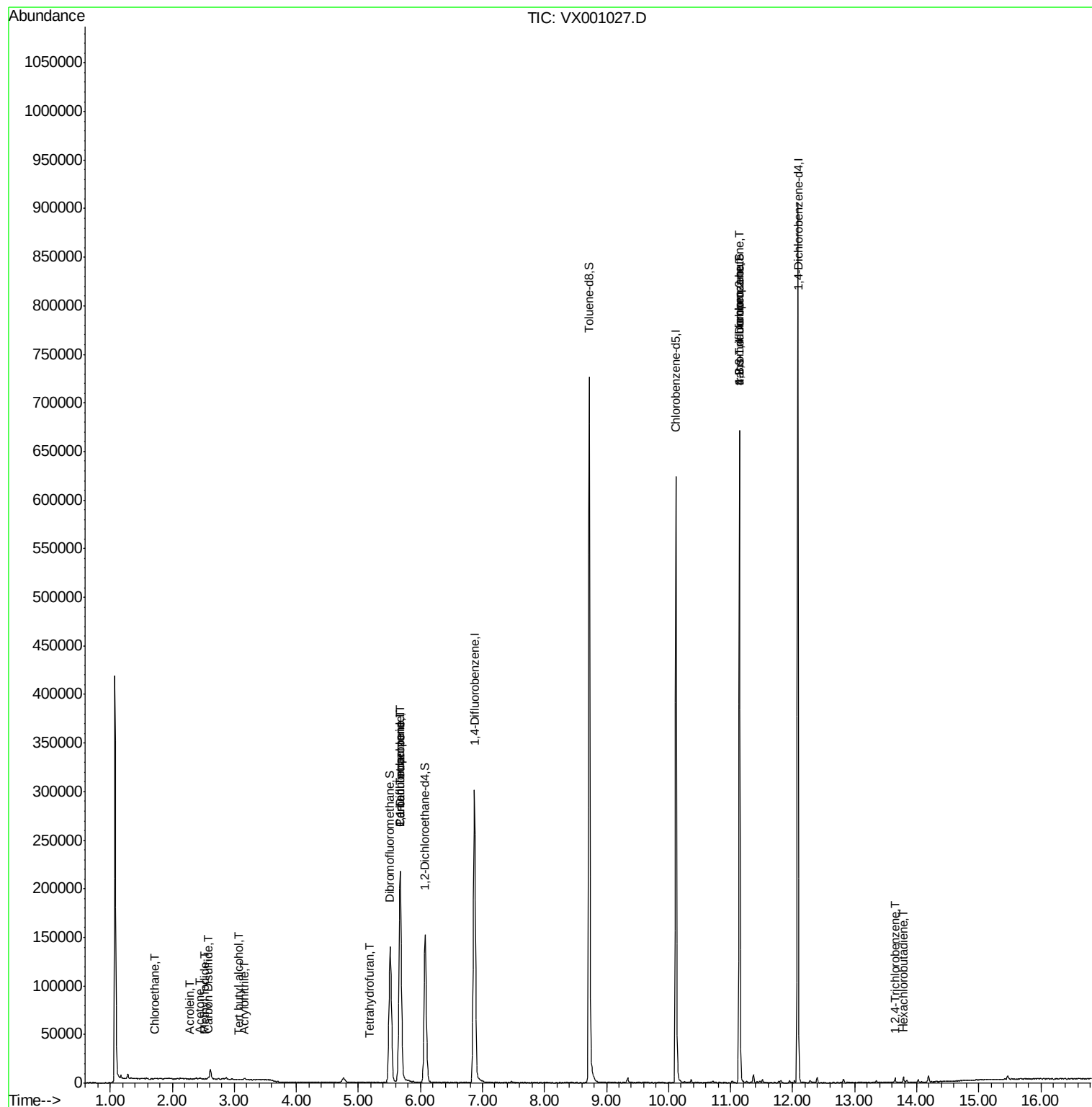
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	337	Below Cal		82
6) Chloroethane	1.72	64	339	0.20 ug/l	#	79
10) Methyl Iodide	2.52	142	248	7.69 ug/l	#	87
11) Tert butyl alcohol	3.06	59	130	0.29 ug/l	#	87
13) Acrolein	2.29	56	161	12.04 ug/l	#	44
15) Acrylonitrile	3.15	53	587	0.49 ug/l	#	87
16) Acetone	2.45	43	1580	1.42 ug/l		95
17) Carbon Disulfide	2.57	76	1668	0.26 ug/l		97
20) Methylene Chloride	2.87	84	800	Below Cal	#	80
29) Tetrahydrofuran	5.18	42	428	0.39 ug/l	#	46
36) 1,1-Dichloropropene	5.67	75	14649	3.88 ug/l	#	49
38) Carbon Tetrachloride	5.67	117	20292	5.31 ug/l	#	15
76) 1,2,3-Trichloropropane	11.14	75	86448	26.32 ug/l	#	38
81) trans-1,4-Dichloro-2-buten	11.14	75	86448	78.78 ug/l	#	8
93) 1,2,4-Trichlorobenzene	13.65	180	1295	0.24 ug/l		98
94) Hexachlorobutadiene	13.79	225	1041	0.42 ug/l		93

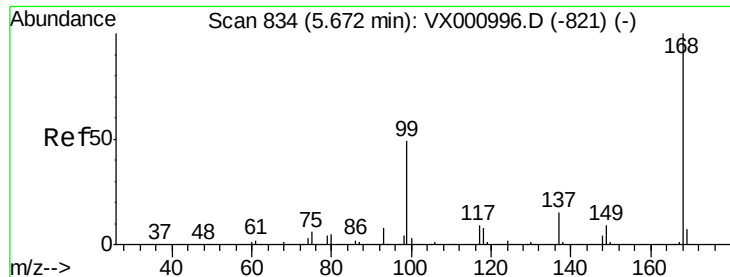
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX001027.D

Acq: 20 Apr 2018 23:55

Instrument :

MSVOA_X

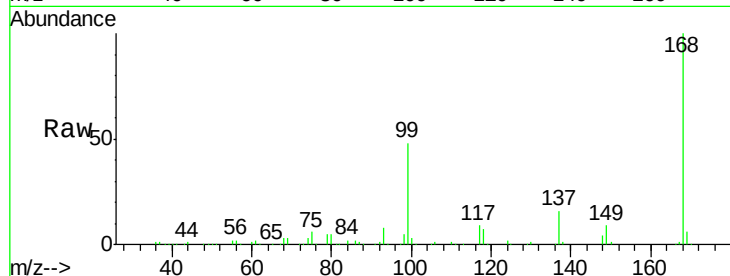
ClientSampleId :

Tot Ion:168 Resp: 232941

Ion Ratio Lower Upper

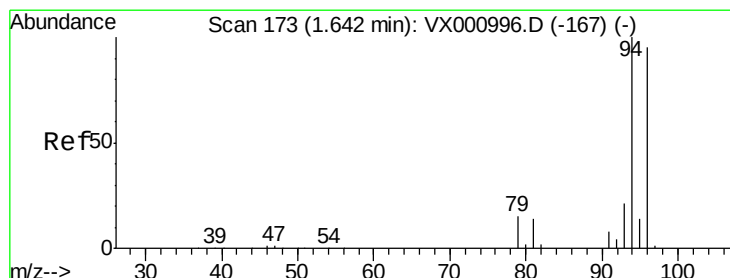
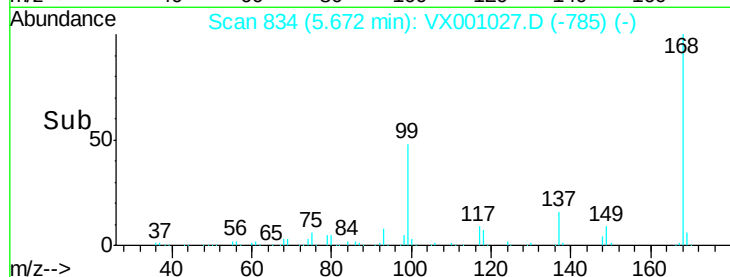
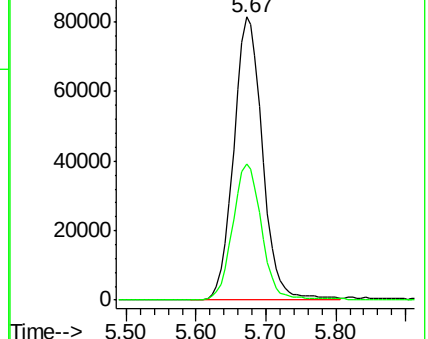
168 100

99 48.2 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.01 min

Lab File: VX001027.D

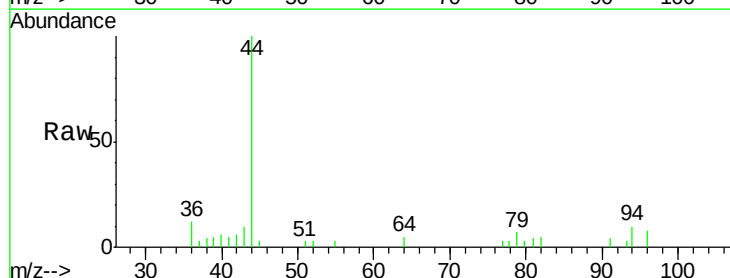
Acq: 20 Apr 2018 23:55

Tgt Ion: 94 Resp: 337

Ion Ratio Lower Upper

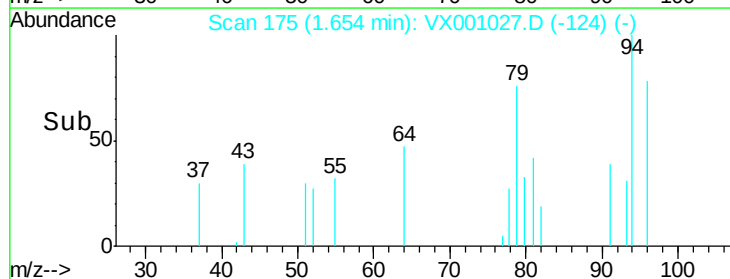
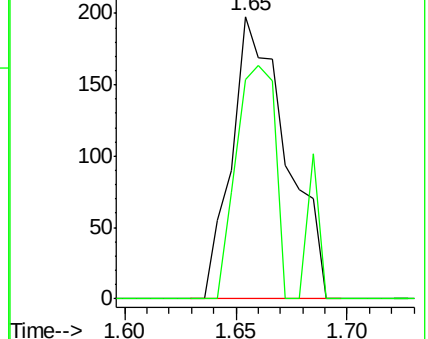
94 100

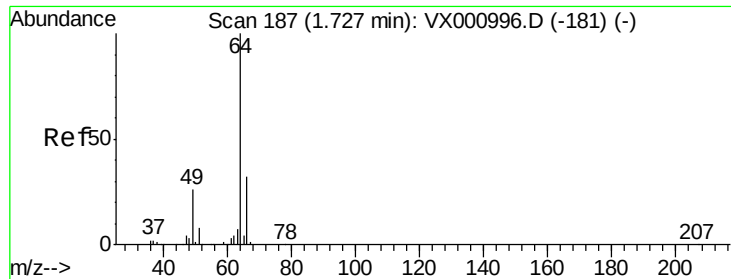
96 77.8 76.0 114.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.20 ug/l

RT: 1.72 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX001027.D

Acq: 20 Apr 2018 23:55

Instrument :

MSVOA_X

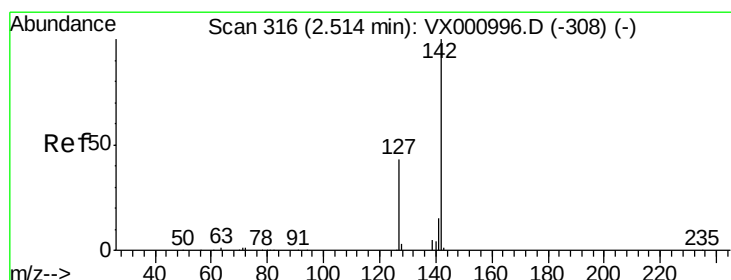
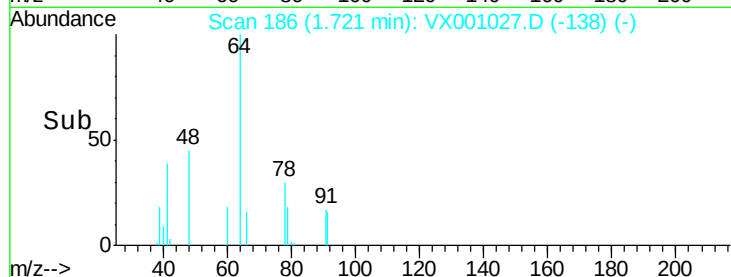
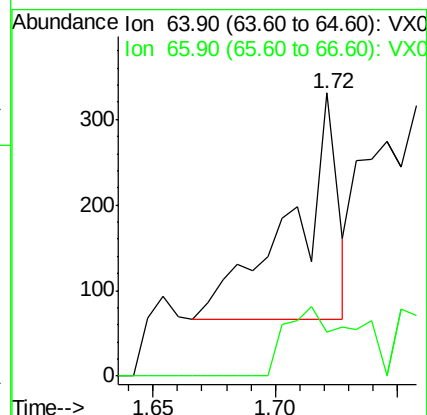
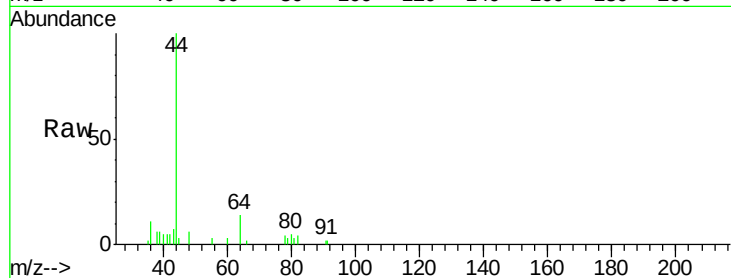
ClientSampleId :

Tot Ion: 64 Resp: 339

Ion Ratio Lower Upper

64 100

66 19.7 25.3 37.9#



#10

Methyl Iodide

Concen: 7.69 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX001027.D

Acq: 20 Apr 2018 23:55

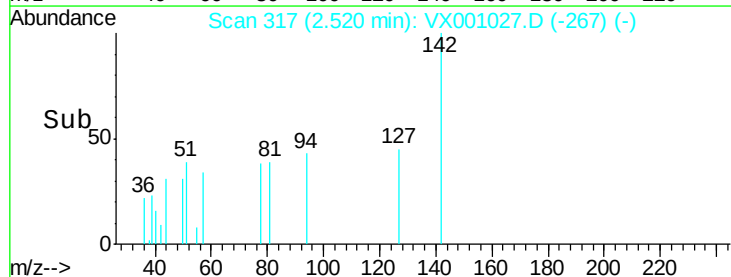
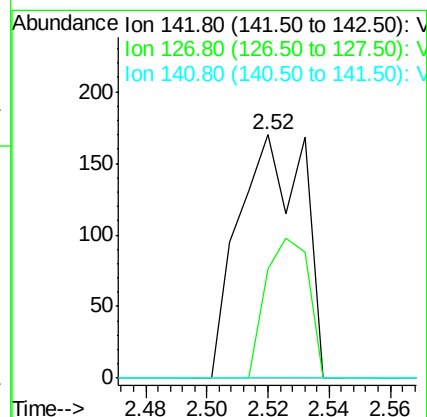
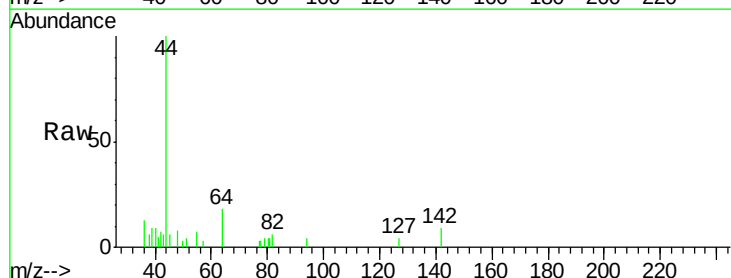
Tgt Ion: 142 Resp: 248

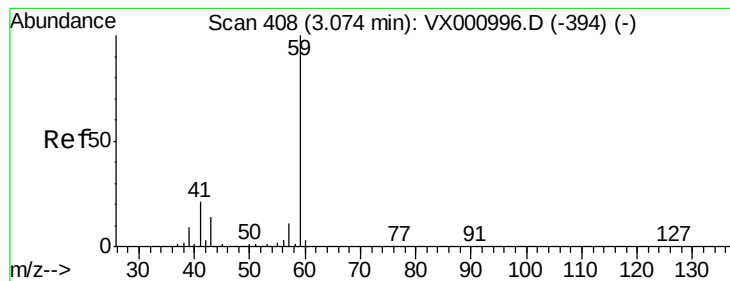
Ion Ratio Lower Upper

142 100

127 38.7 34.0 51.0

141 0.0 11.4 17.2#





#11

Tert butyl alcohol

Concen: 0.29 ug/l

RT: 3.06 min Scan# 406

Delta R.T. -0.01 min

Lab File: VX001027.D

Acq: 20 Apr 2018 23:55

Instrument :

MSVOA_X

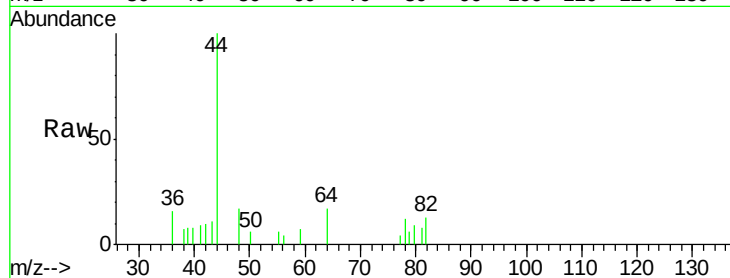
ClientSampled :

Tot Ion: 59 Resp: 130

Ion Ratio Lower Upper

59 100

57 15.4 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

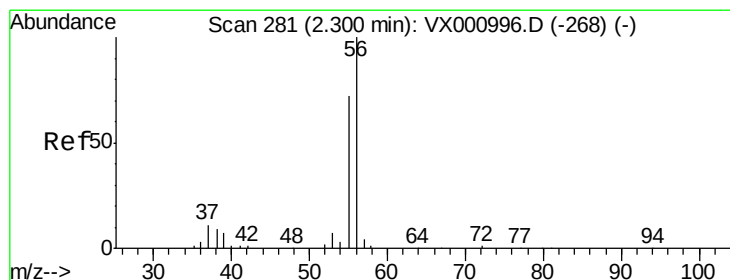
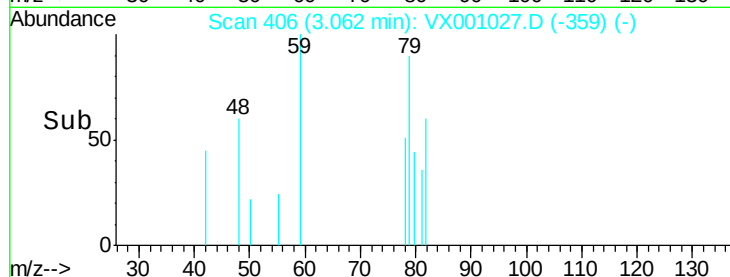
Ion 57.00 (56.70 to 57.70): VX0

3.06

3.08

3.10

Time-->



#13

Acrolein

Concen: 12.04 ug/l

RT: 2.29 min Scan# 280

Delta R.T. -0.01 min

Lab File: VX001027.D

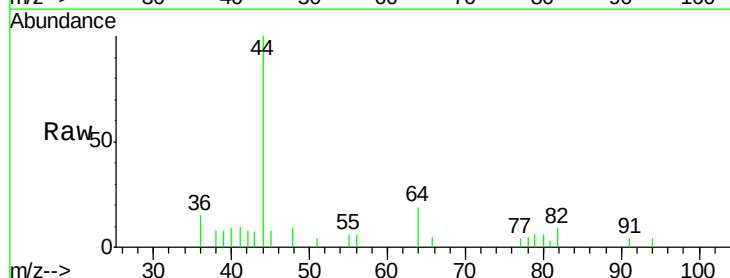
Acq: 20 Apr 2018 23:55

Tgt Ion: 56 Resp: 161

Ion Ratio Lower Upper

56 100

55 25.5 57.4 86.2#



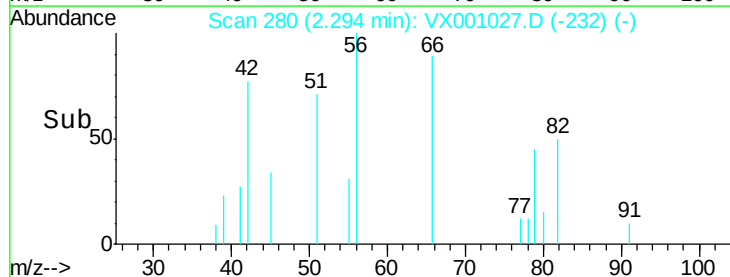
Abundance Ion 56.00 (55.70 to 56.70): VX0

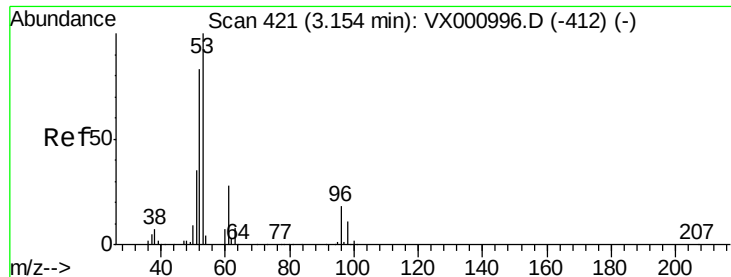
Ion 55.00 (54.70 to 55.70): VX0

2.29

2.32

Time-->





#15

Acrylonitrile

Concen: 0.49 ug/l

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX001027.D

Acq: 20 Apr 2018 23:55

Instrument :

MSVOA_X

ClientSampleId :

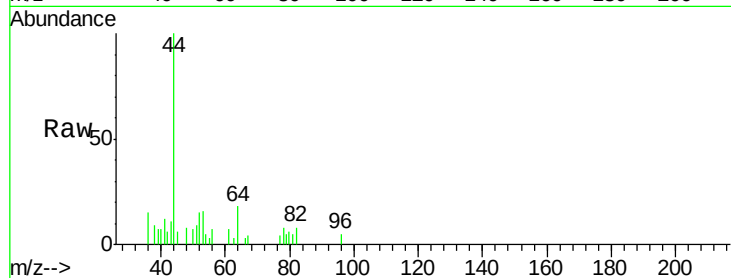
Tot Ion: 53 Resp: 587

Ion Ratio Lower Upper

53 100

52 89.6 66.4 99.6

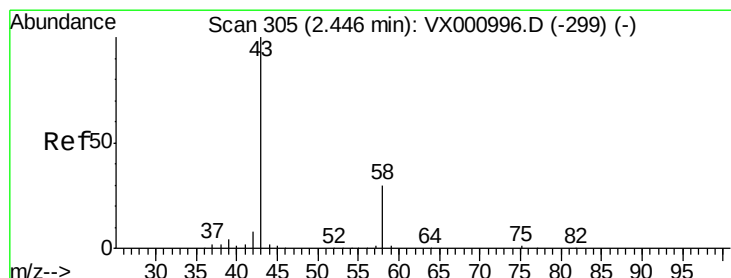
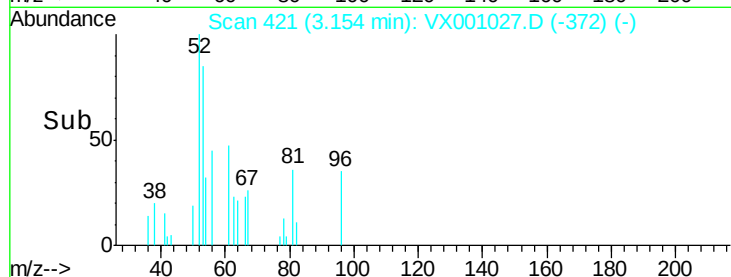
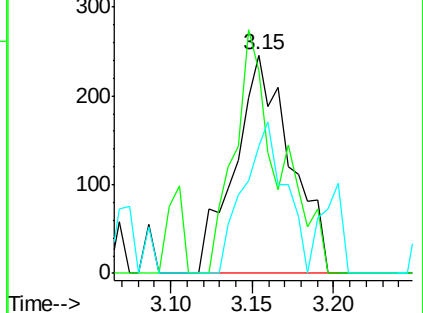
51 51.6 29.0 43.6#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 1.42 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX001027.D

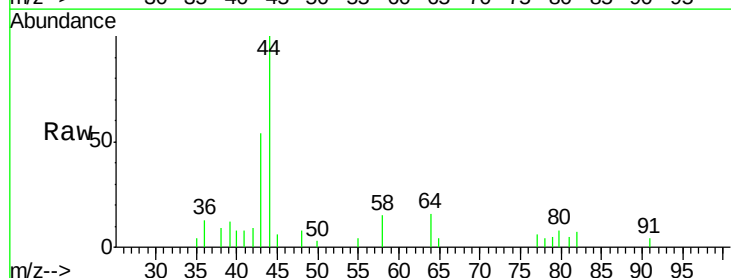
Acq: 20 Apr 2018 23:55

Tgt Ion: 43 Resp: 1580

Ion Ratio Lower Upper

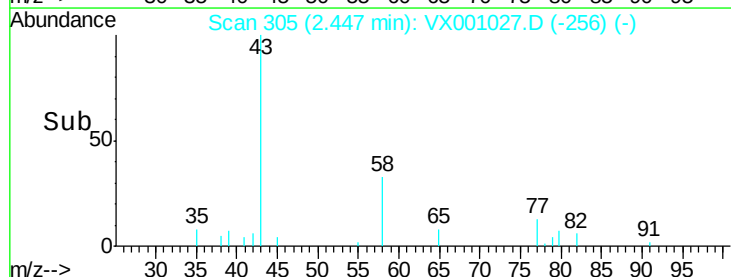
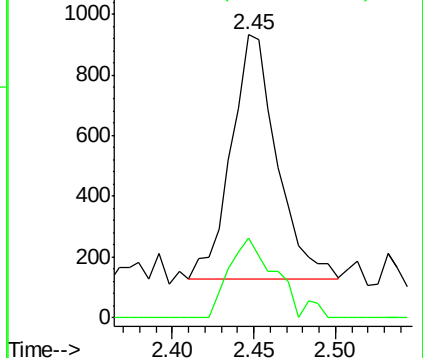
43 100

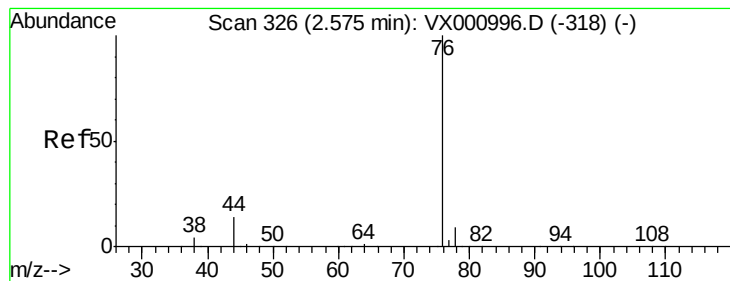
58 32.4 23.7 35.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.26 ua/l

RT: 2.57 min Scan# 326

Delta R.T. 0.00 min

Lab File: VX001027.D

Acq: 20 Apr 2018 23:55

Instrument :

MSVOA_X

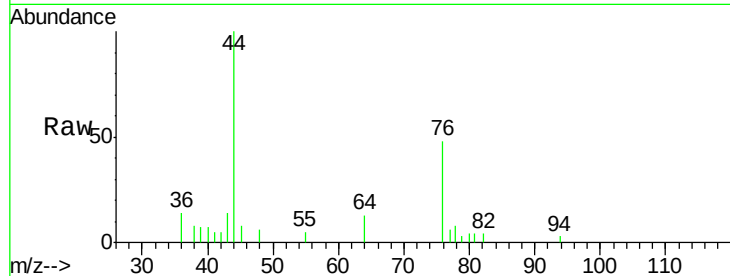
ClientSampled :

Tot Ion: 76 Resp: 1668

Ion Ratio Lower Upper

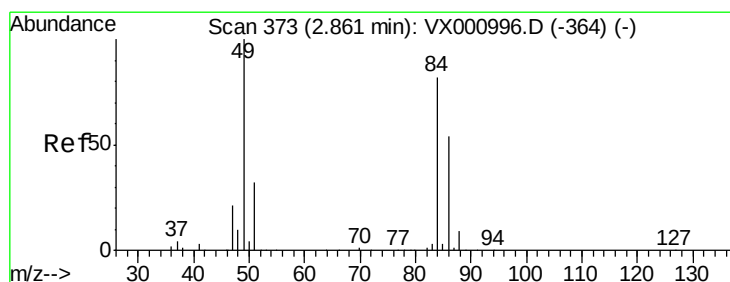
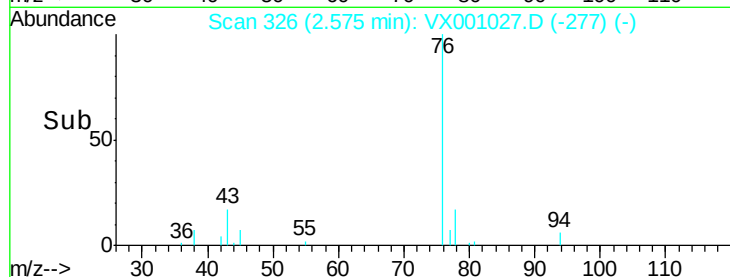
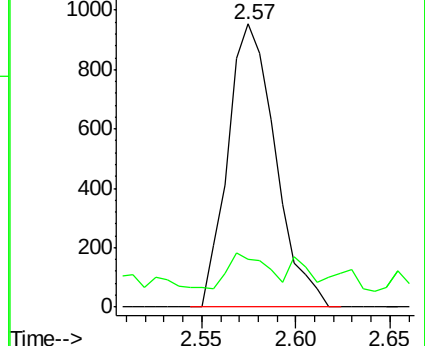
76 100

78 10.3 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.87 min Scan# 374

Delta R.T. 0.01 min

Lab File: VX001027.D

Acq: 20 Apr 2018 23:55

Tgt Ion: 84 Resp: 800

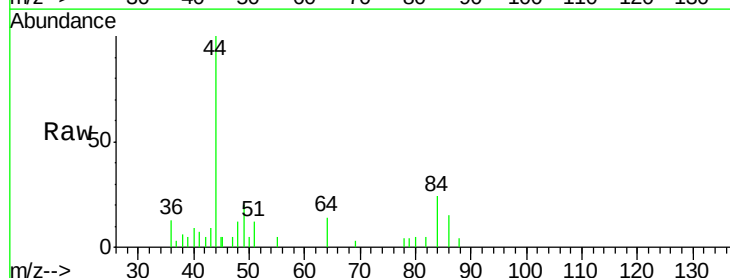
Ion Ratio Lower Upper

84 100

49 83.6 97.1 145.7#

51 37.1 30.8 46.2

86 62.2 52.3 78.5

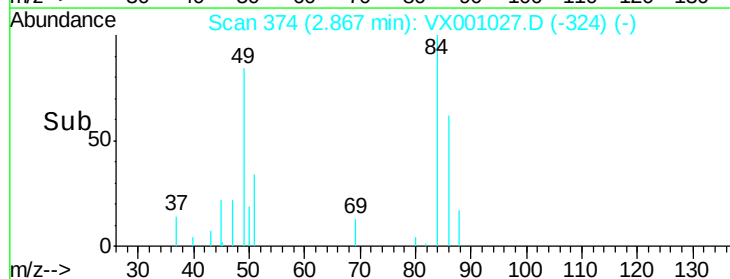
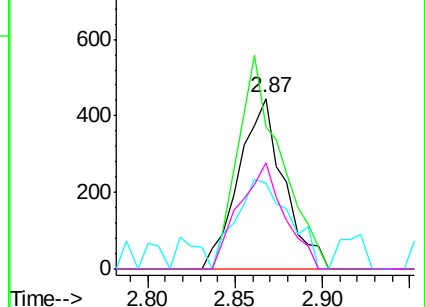


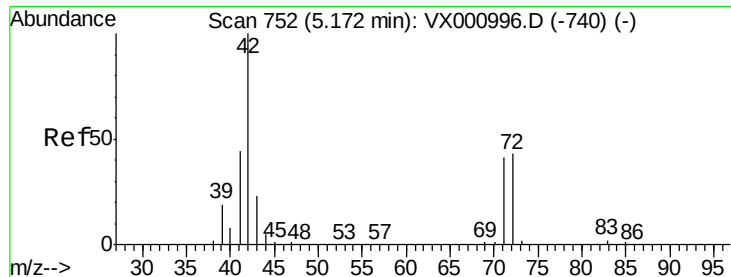
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

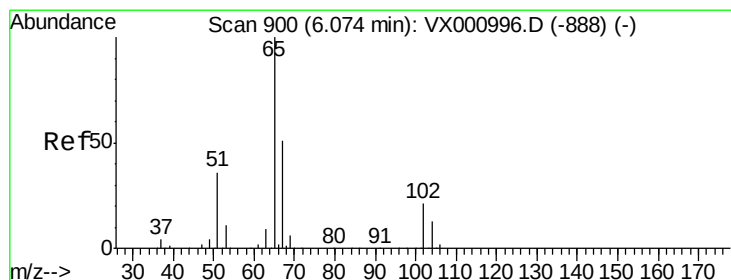
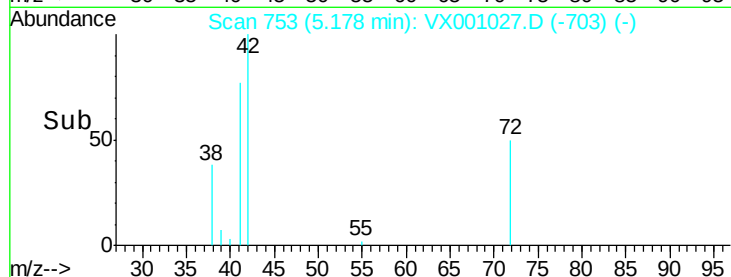
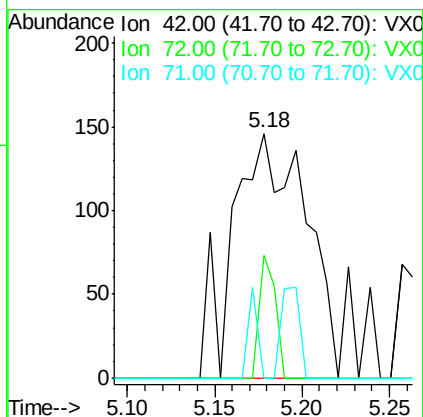
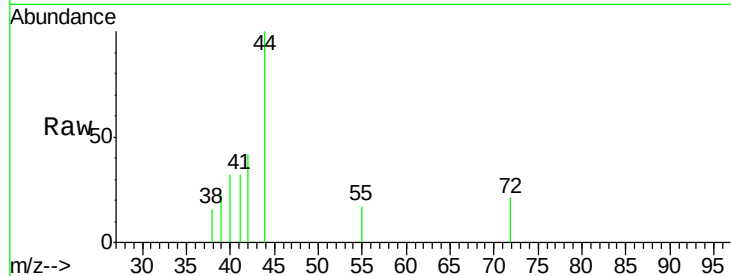




#29
Tetrahydrofuran
Concen: 0.39 ug/l
RT: 5.18 min Scan# 753
Delta R.T. 0.01 min
Lab File: VX001027.D
Acq: 20 Apr 2018 23:55

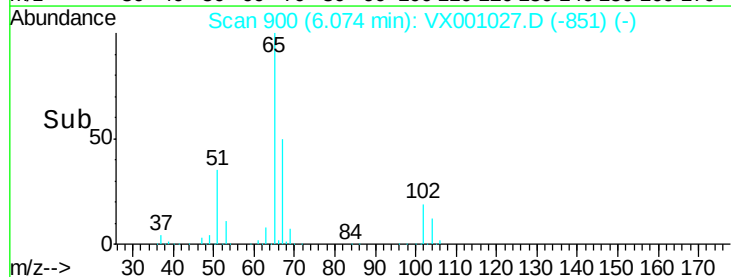
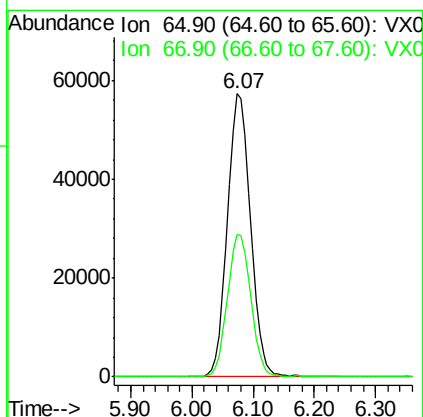
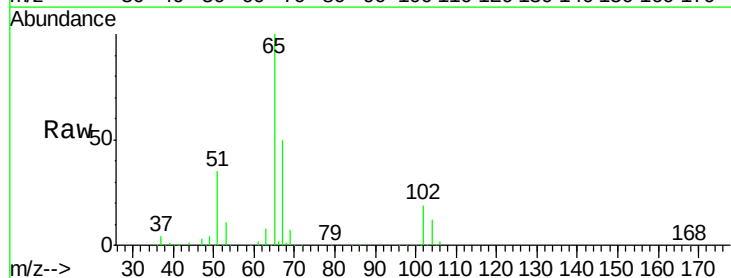
Instrument :
MSVOA_X
ClientSampleId :

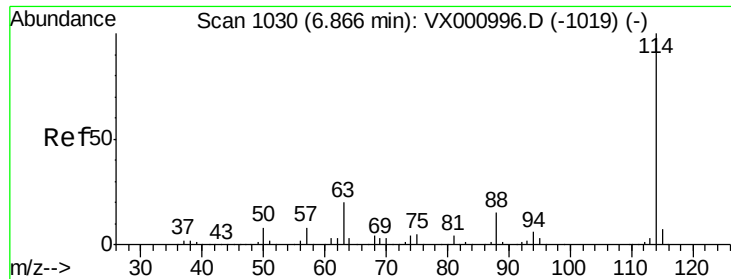
Tot Ion: 42 Resp: 428
Ion Ratio Lower Upper
42 100
72 11.0 34.6 52.0#
71 4.7 32.6 49.0#



#33
1,2-Dichloroethane-d4
Concen: 50.34 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX001027.D
Acq: 20 Apr 2018 23:55

Tgt Ion: 65 Resp: 148653
Ion Ratio Lower Upper
65 100
67 50.8 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VX001027.D

Acq: 20 Apr 2018 23:55

Instrument :

MSVOA_X

ClientSampleId :

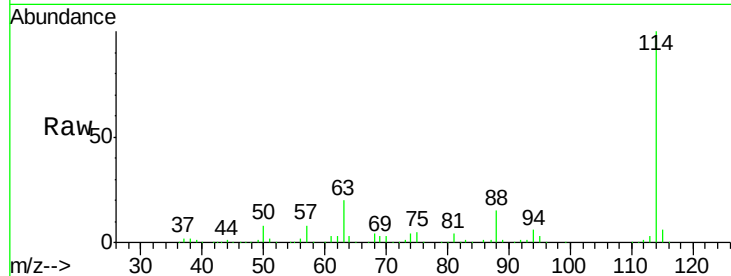
Tot Ion:114 Resp: 321304

Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.4

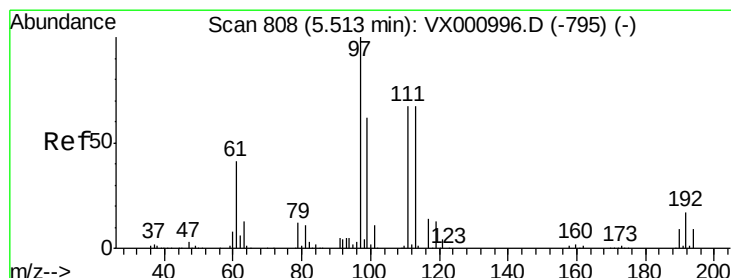
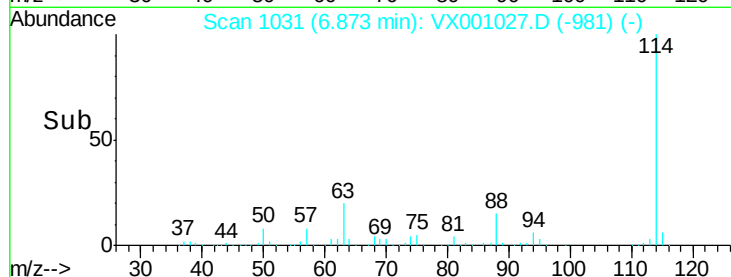
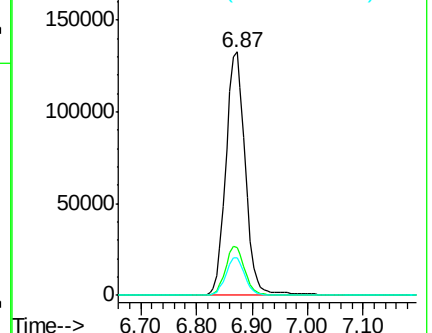
88 15.4 0.0 29.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 46.66 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.00 min

Lab File: VX001027.D

Acq: 20 Apr 2018 23:55

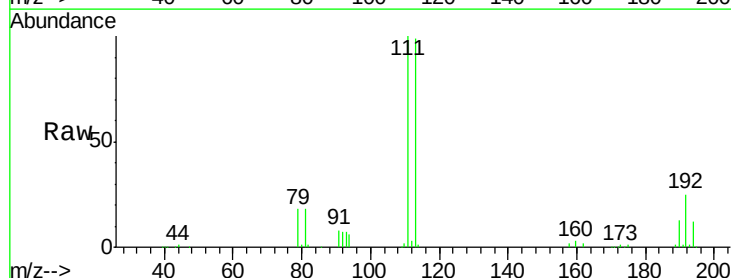
Tgt Ion:113 Resp: 114330

Ion Ratio Lower Upper

113 100

111 102.3 81.4 122.2

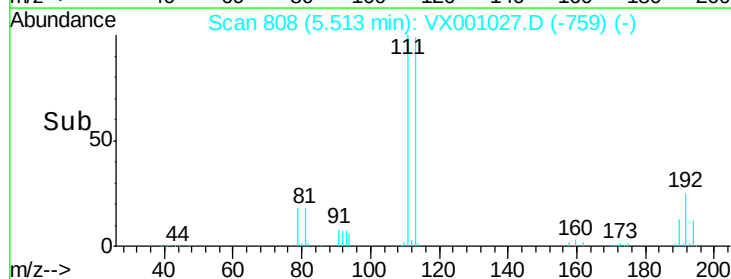
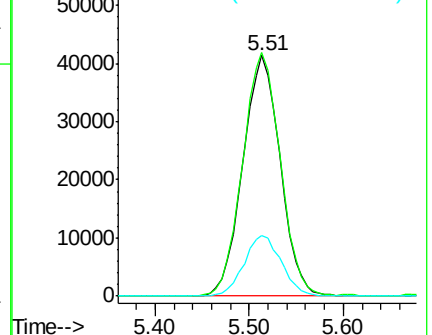
192 25.3 20.4 30.6

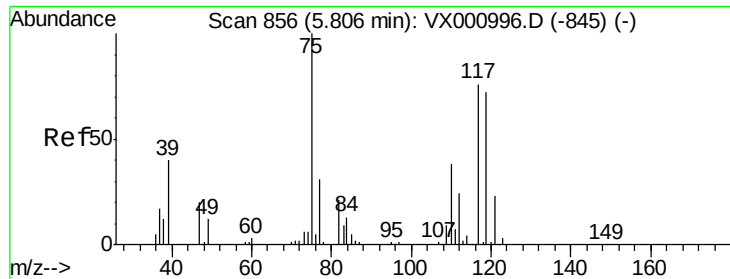


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

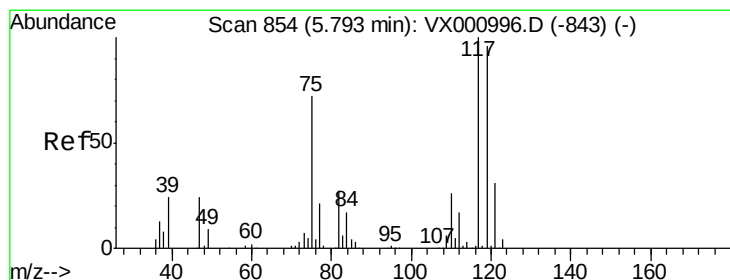
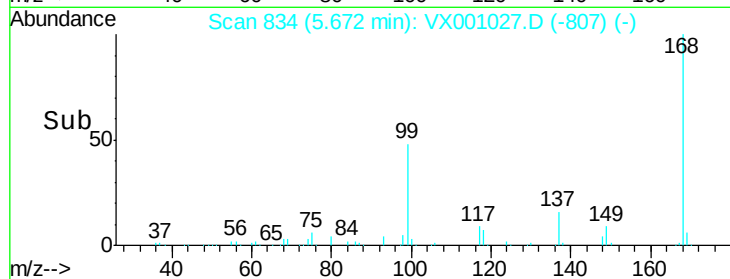
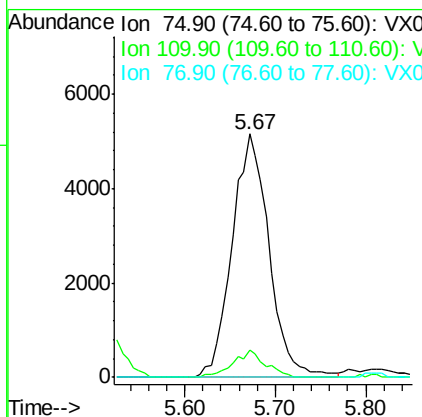
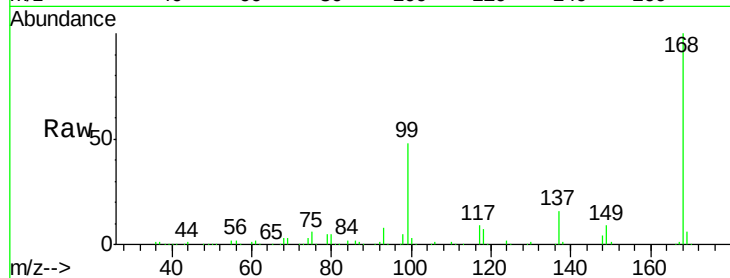




#36
 1,1-Dichloropropene
 Concen: 3.88 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX001027.D
 Acq: 20 Apr 2018 23:55

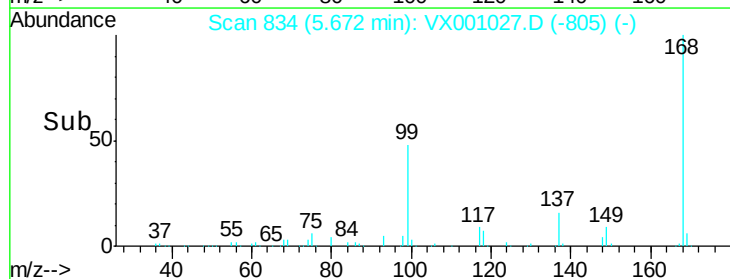
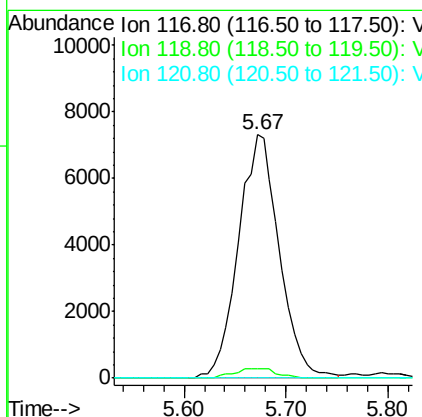
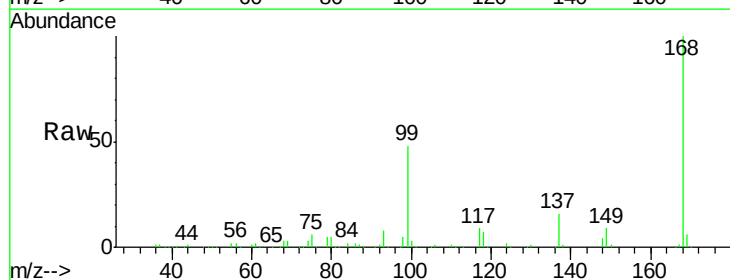
Instrument :
 MSVOA_X
 ClientSampleId :

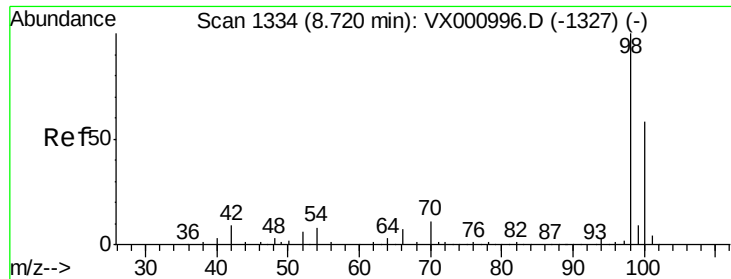
Tot Ion	75	Resp	14649
Ion Ratio	Lower	Upper	
75	100		
110	9.8	18.7	56.1#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.31 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX001027.D
 Acq: 20 Apr 2018 23:55

Tgt Ion	117	Resp	20292
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	3.7	76.5	114.7#
121	0.0	24.5	36.7#

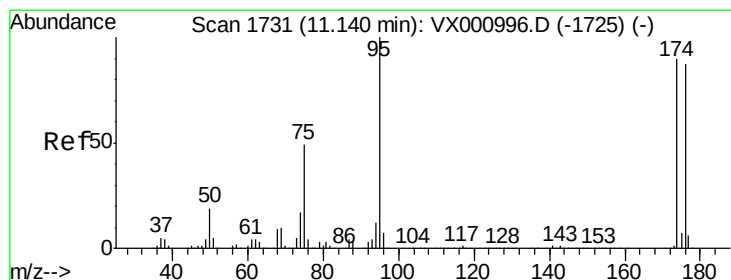
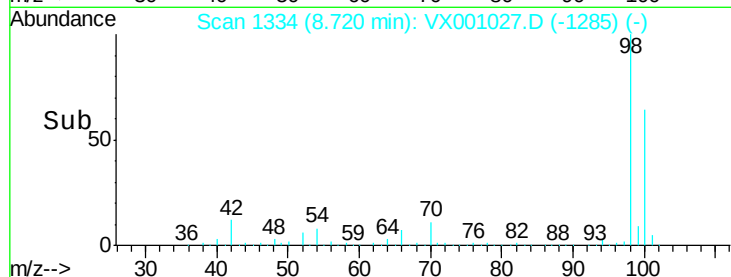
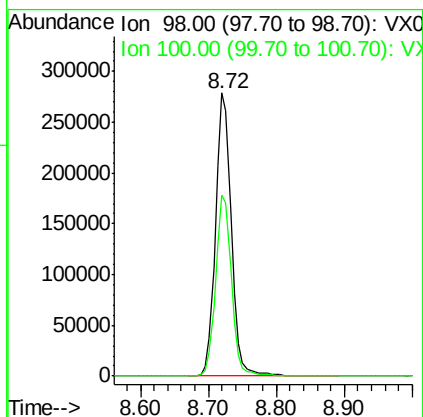
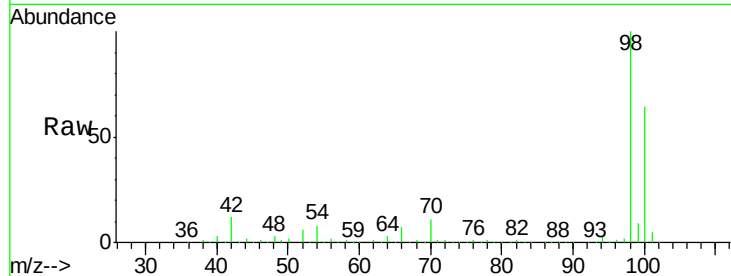




#50
Toluene-d8
Concen: 49.69 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX001027.D
Acq: 20 Apr 2018 23:55

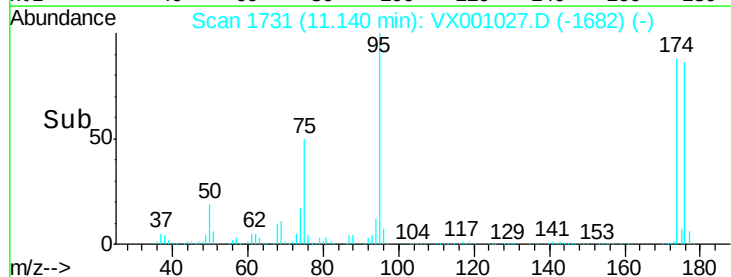
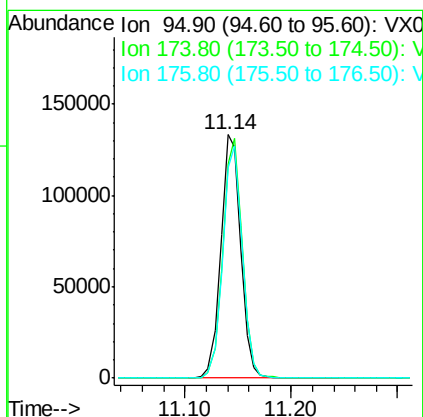
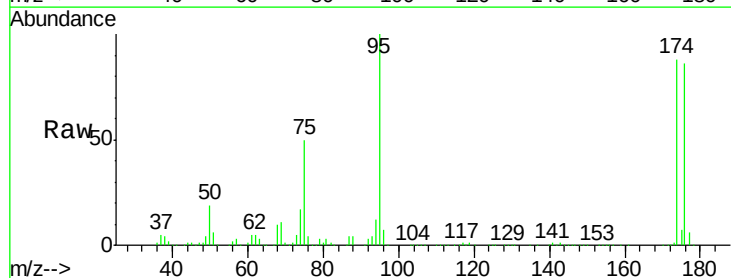
Instrument :
MSVOA_X
ClientSampleId :

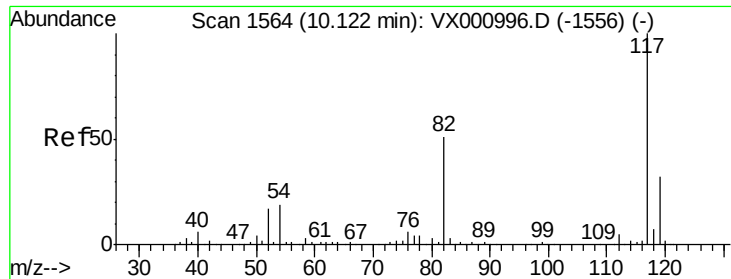
Tot Ion: 98 Resp: 450190
Ion Ratio Lower Upper
98 100
100 64.3 51.9 77.9



#62
4-Bromofluorobenzene
Concen: 45.49 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX001027.D
Acq: 20 Apr 2018 23:55

Tgt Ion: 95 Resp: 172966
Ion Ratio Lower Upper
95 100
174 96.6 0.0 198.4
176 94.4 0.0 192.0





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.01 min

Lab File: VX001027.D

Acq: 20 Apr 2018 23:55

Instrument :

MSVOA_X

ClientSampleId :

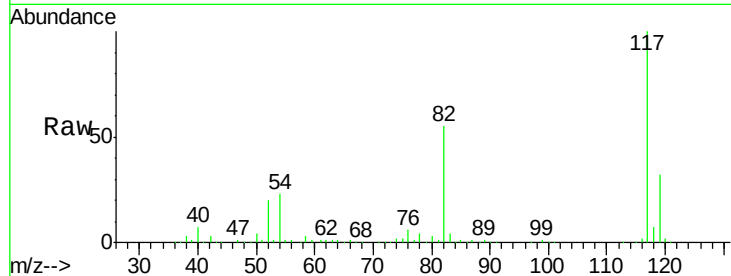
Tot Ion:117 Resp: 295601

Ion Ratio Lower Upper

117 100

82 55.3 40.6 60.8

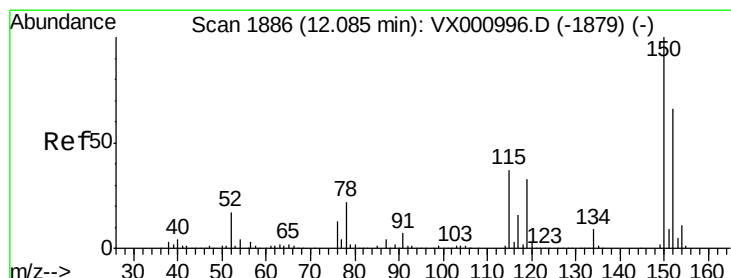
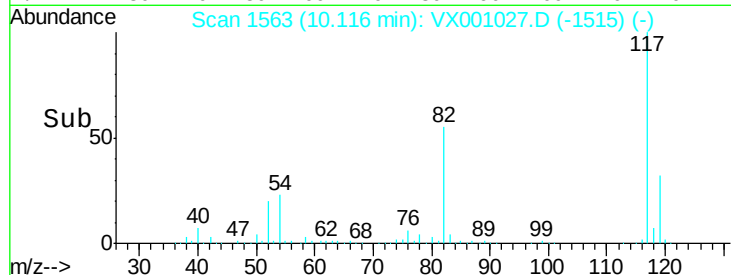
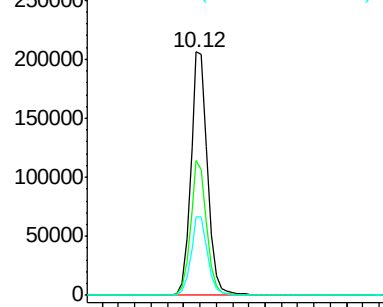
119 32.2 26.0 39.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

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: VX001027.D

Acq: 20 Apr 2018 23:55

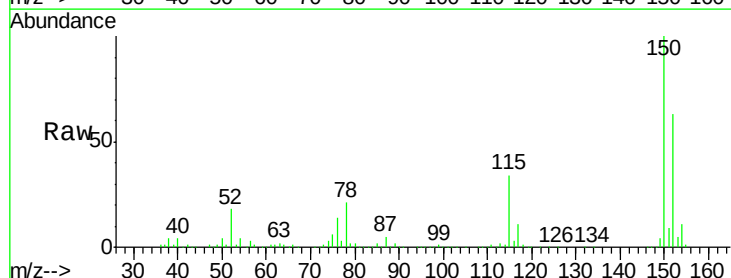
Tgt Ion:152 Resp: 189294

Ion Ratio Lower Upper

152 100

115 54.3 38.2 114.6

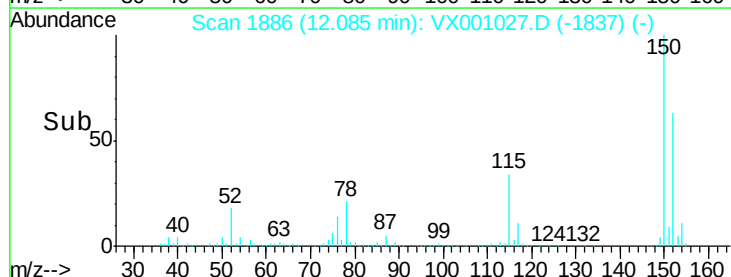
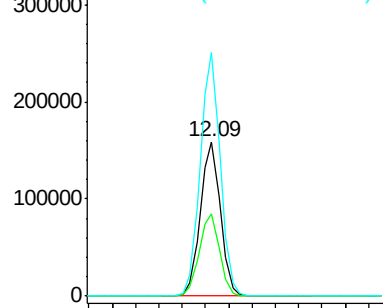
150 157.2 0.0 350.4

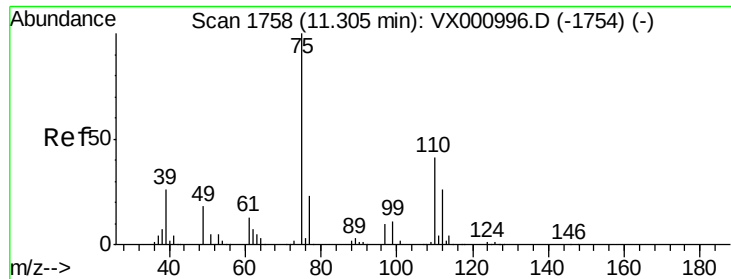


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.32 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001027.D

Acq: 20 Apr 2018 23:55

Instrument :

MSVOA_X

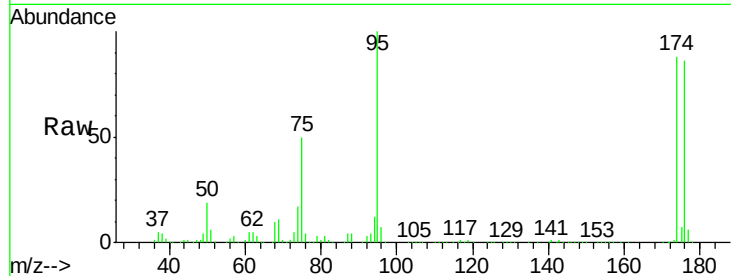
ClientSampled :

Tot Ion: 75 Resp: 86448

Ion Ratio Lower Upper

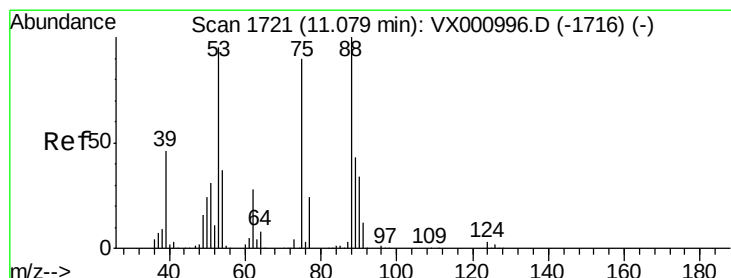
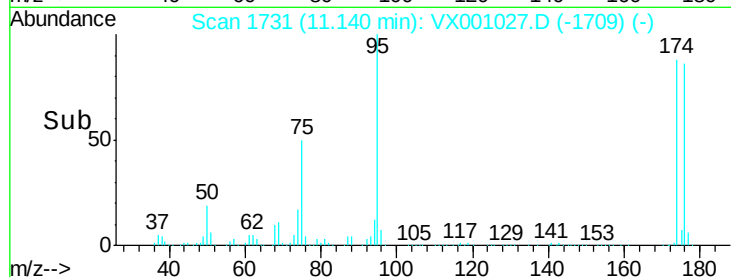
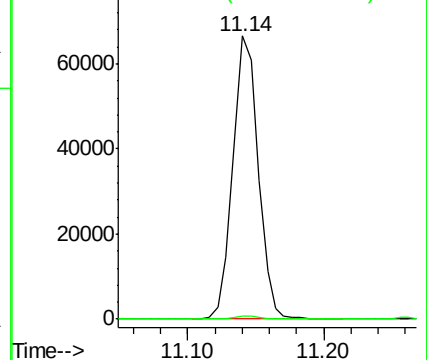
75 100

77 1.1 19.6 58.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 78.78 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001027.D

Acq: 20 Apr 2018 23:55

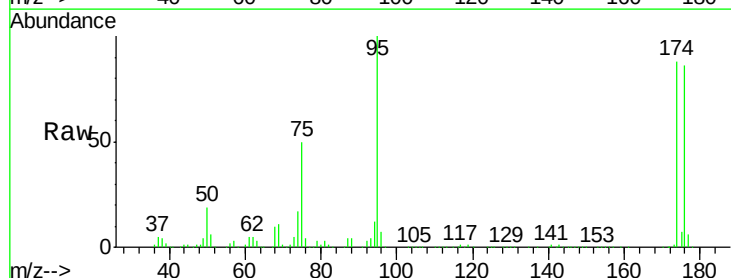
Tgt Ion: 75 Resp: 86448

Ion Ratio Lower Upper

75 100

53 0.0 83.4 125.2#

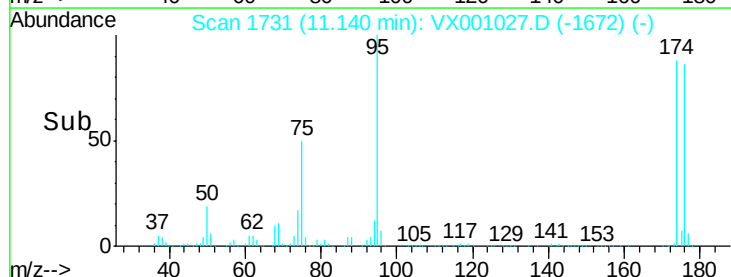
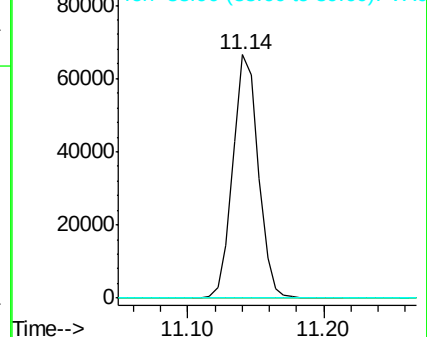
89 0.0 39.7 59.5#

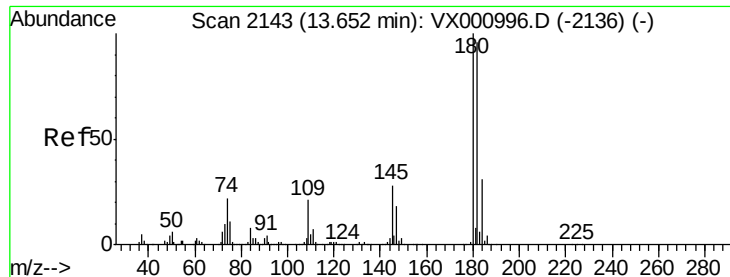


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

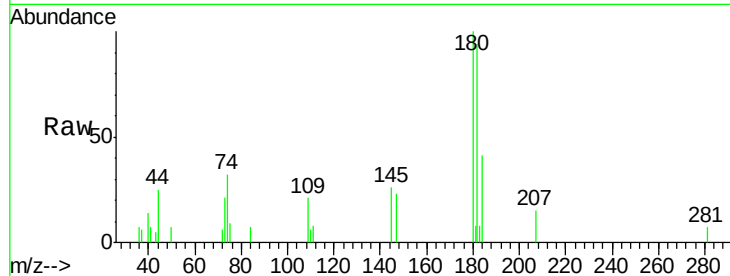




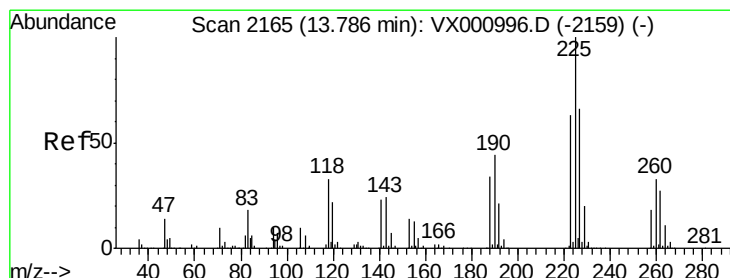
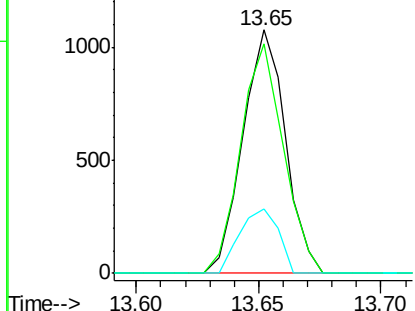
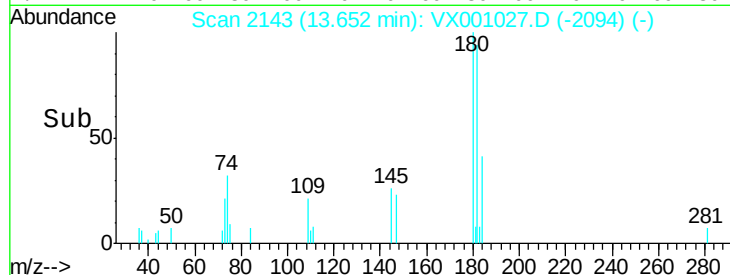
#93
 1,2,4-Trichlorobenzene
 Concen: 0.24 ug/l
 RT: 13.65 min Scan# 2143
 Delta R.T. 0.00 min
 Lab File: VX001027.D
 Acq: 20 Apr 2018 23:55

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.9	48.0	144.0
145	24.0	13.9	41.7

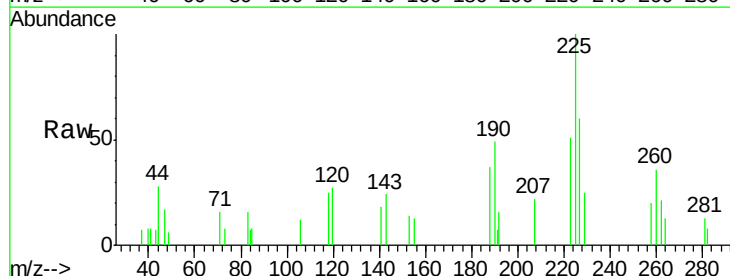


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 0.42 ug/l
 RT: 13.79 min Scan# 2165
 Delta R.T. 0.00 min
 Lab File: VX001027.D
 Acq: 20 Apr 2018 23:55

Tgt Ion	Ratio	Lower	Upper
225	100		
223	56.8	31.5	94.5
227	60.1	32.6	97.8



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V

