

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102318\
 Data File : VX005520.D
 Acq On : 23 Oct 2018 14:54
 Operator : JC/MD
 Sample : PB114080ZHE#02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 24 01:13:21 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	225598	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	370530	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	303705	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	126793	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	148616	59.36	ug/l	0.00
Spiked Amount			Recovery	=	118.72%	
35) Dibromofluoromethane	5.51	113	118748	48.39	ug/l	0.00
Spiked Amount			Recovery	=	96.78%	
50) Toluene-d8	8.72	98	387564	46.00	ug/l	0.00
Spiked Amount			Recovery	=	92.00%	
62) 4-Bromofluorobenzene	11.14	95	120308	38.01	ug/l	0.00
Spiked Amount			Recovery	=	76.02%	

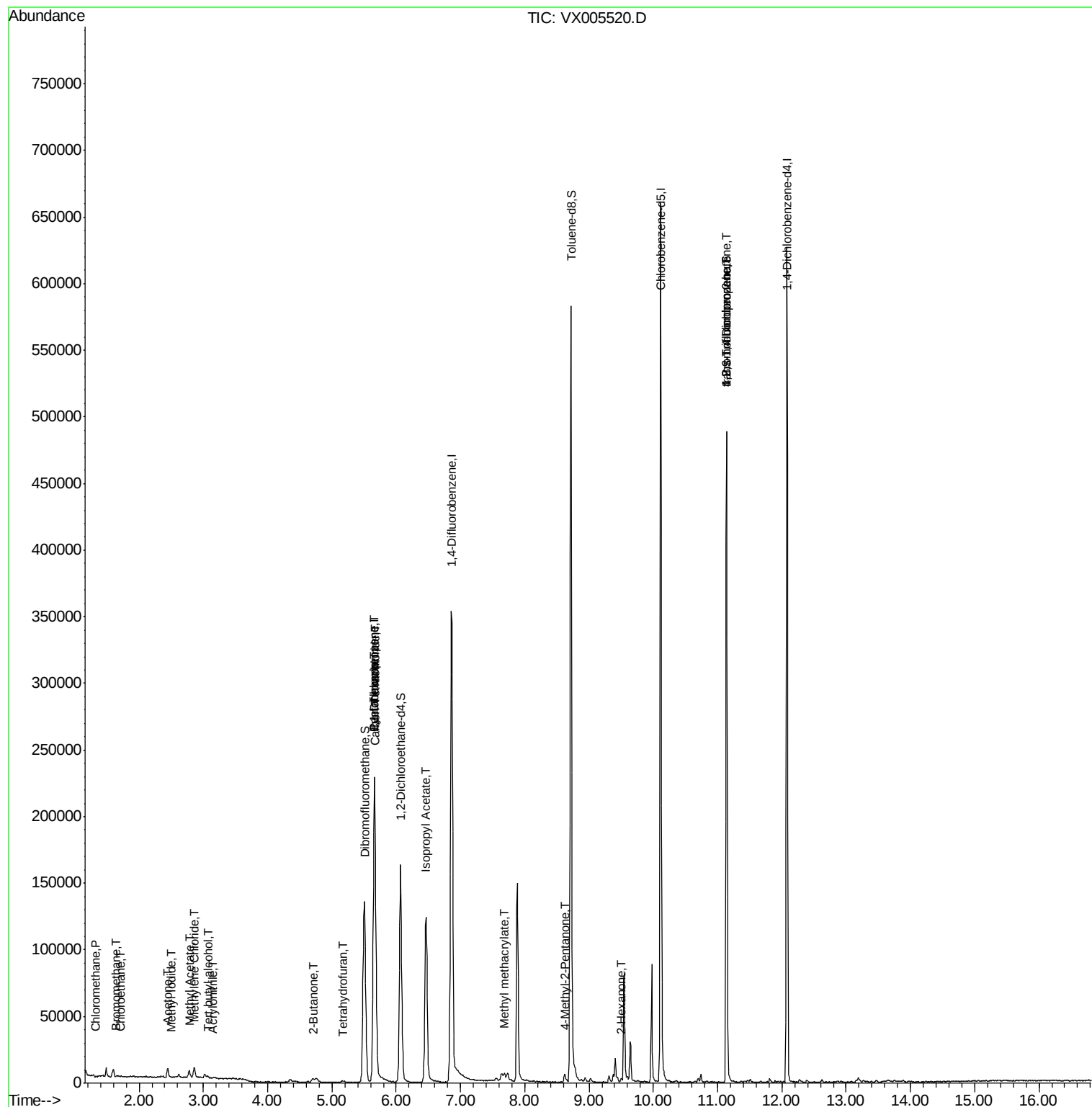
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	513	0.201	ug/l #	55
5) Bromomethane	1.64	94	588	0.982	ug/l #	64
6) Chloroethane	1.71	64	87	0.386	ug/l #	30
10) Methyl Iodide	2.51	142	293	2.616	ug/l #	90
11) Tert butyl alcohol	3.07	59	881	1.247	ug/l #	86
13) Acrolein	2.29	56	92	Below Cal	#	77
15) Acrylonitrile	3.15	53	343	0.214	ug/l #	72
16) Acetone	2.45	43	7817	5.400	ug/l #	87
18) Methyl Acetate	2.78	43	6334	1.538	ug/l	95
20) Methylene Chloride	2.86	84	3483	0.352	ug/l	96
25) 2-Butanone	4.71	43	5442	2.569	ug/l #	83
29) Tetrahydrofuran	5.17	42	1366	1.011	ug/l #	61
31) Cyclohexane	5.66	56	4358	1.266	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	15738	4.386	ug/l #	50
38) Carbon Tetrachloride	5.67	117	22360	6.201	ug/l #	15
43) Isopropyl Acetate	6.46	43	171704	27.930	ug/l	95
44) Trichloroethene	7.21	130	102	Below Cal		4
48) Methyl methacrylate	7.69	41	6035	1.893	ug/l #	23
51) 4-Methyl-2-Pentanone	8.62	43	2511	0.590	ug/l #	41
59) 2-Hexanone	9.50	43	1214	0.355	ug/l	85
76) 1,2,3-Trichloropropane	11.14	75	60972	24.791	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	60972	75.327	ug/l #	10

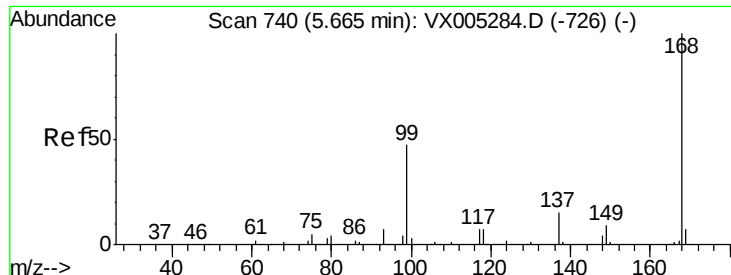
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 12 11:28:43 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX005520.D

Acq: 23 Oct 2018 14:54

Instrument :

MSVOA_X

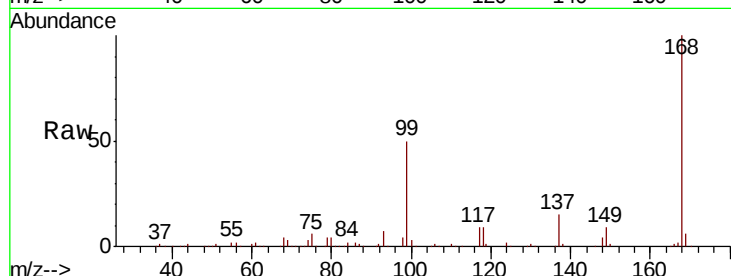
ClientSampleId :

Tot Ion:168 Resp: 225598

Ion Ratio Lower Upper

168 100

99 49.9 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

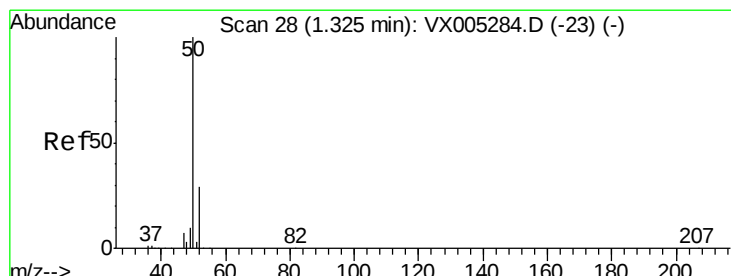
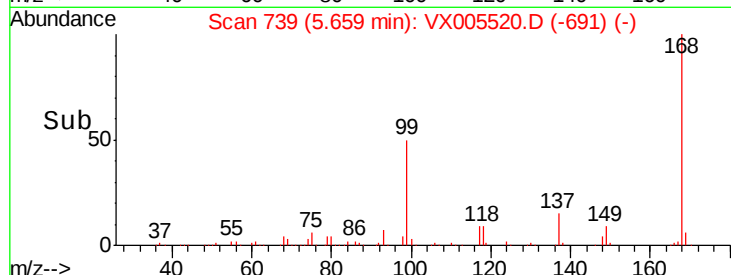
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.201 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX005520.D

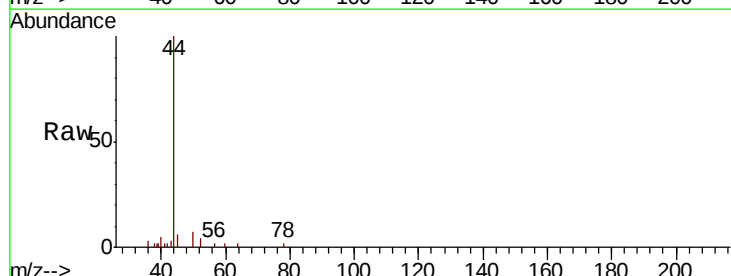
Acq: 23 Oct 2018 14:54

Tgt Ion: 50 Resp: 513

Ion Ratio Lower Upper

50 100

52 58.2 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

250

200

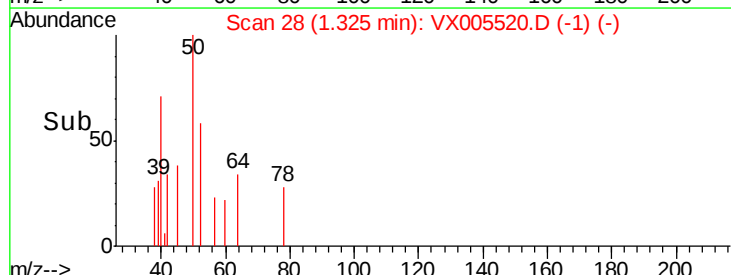
150

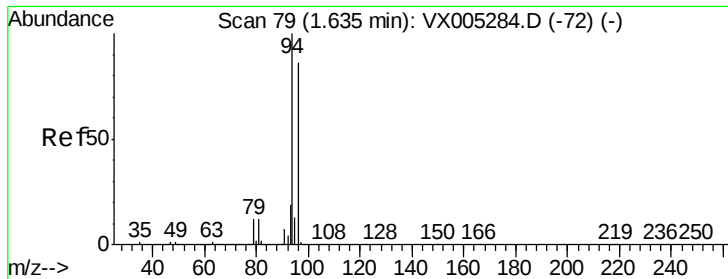
100

50

0

Time--> 1.30 1.35 1.40





#5

Bromomethane

Concen: 0.982 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005520.D

Acq: 23 Oct 2018 14:54

Instrument :

MSVOA_X

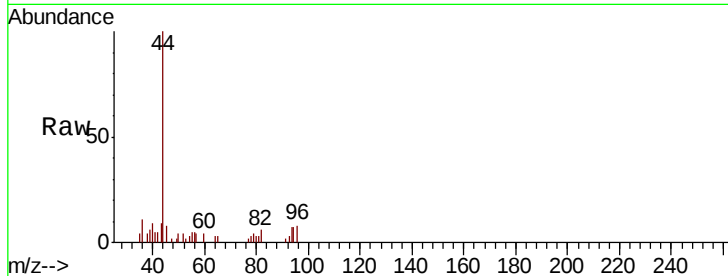
ClientSampleId :

Tot Ion: 94 Resp: 588

Ion Ratio Lower Upper

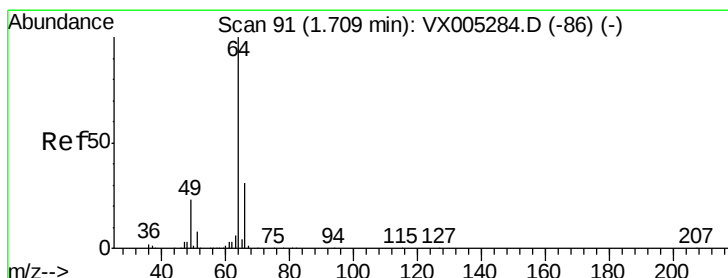
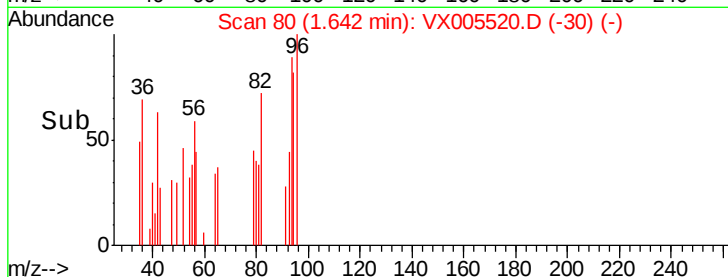
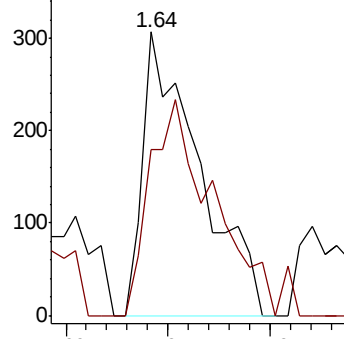
94 100

96 58.3 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.386 ug/l

RT: 1.71 min Scan# 92

Delta R.T. 0.01 min

Lab File: VX005520.D

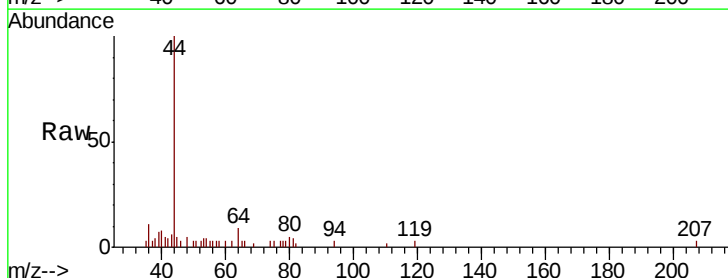
Acq: 23 Oct 2018 14:54

Tgt Ion: 64 Resp: 87

Ion Ratio Lower Upper

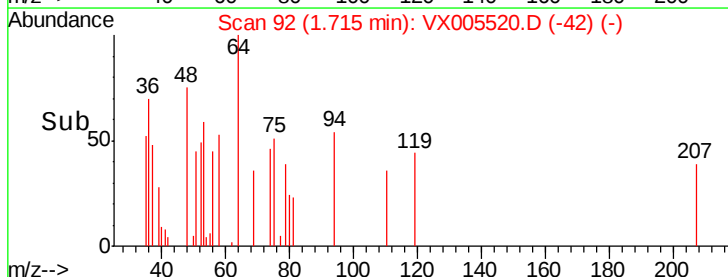
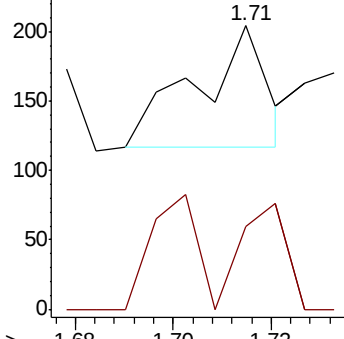
64 100

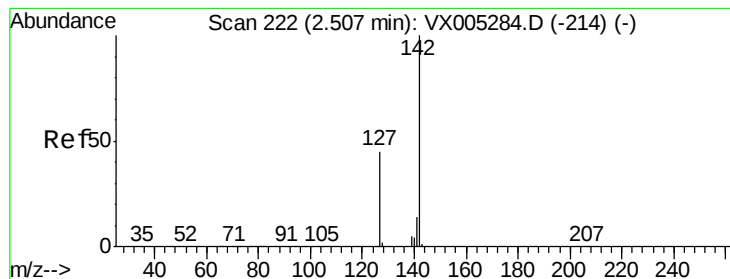
66 69.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#10

Methvl Iodide

Concen: 2.616 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX005520.D

Acq: 23 Oct 2018 14:54

Instrument :

MSVOA_X

ClientSampleId :

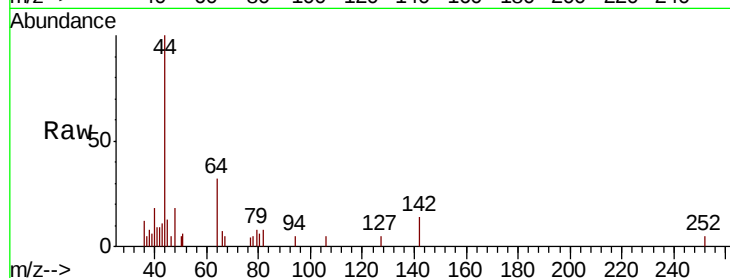
Tot Ion:142 Resp: 293

Ion Ratio Lower Upper

142 100

127 41.0 33.8 50.6

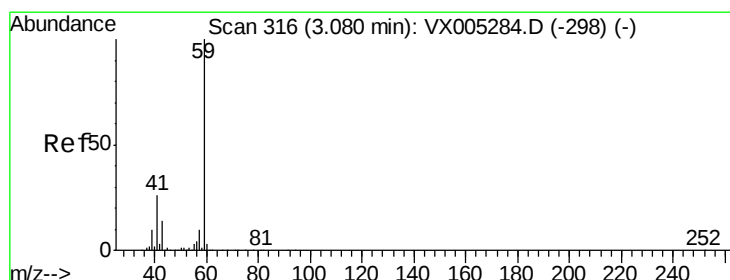
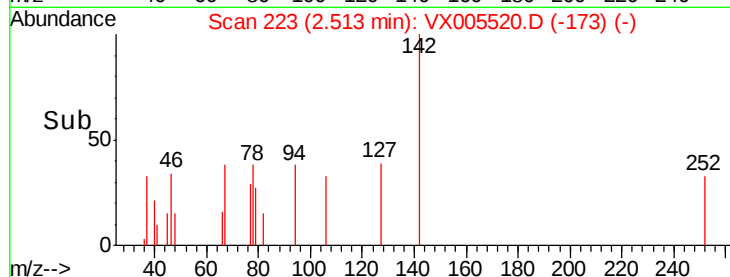
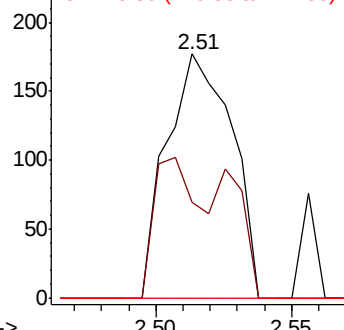
141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 1.247 ug/l

RT: 3.07 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX005520.D

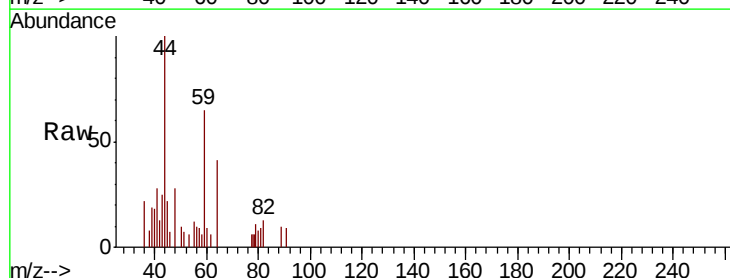
Acq: 23 Oct 2018 14:54

Tgt Ion: 59 Resp: 881

Ion Ratio Lower Upper

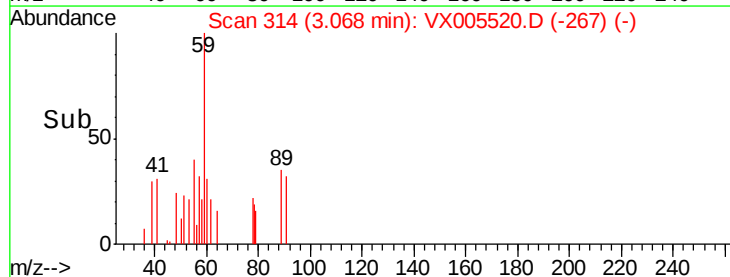
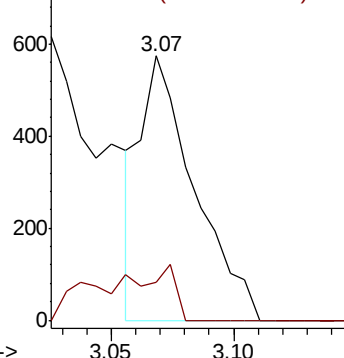
59 100

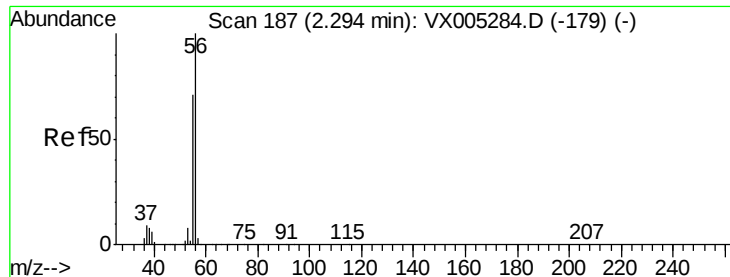
57 15.6 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX005520.D

Acq: 23 Oct 2018 14:54

Instrument :

MSVOA_X

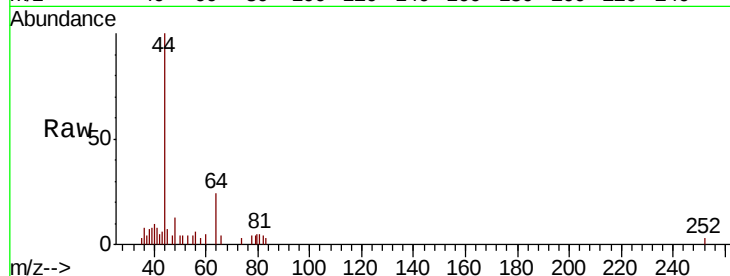
ClientSampleId :

Tot Ion: 56 Resp: 92

Ion Ratio Lower Upper

56 100

55 87.0 54.7 82.1#

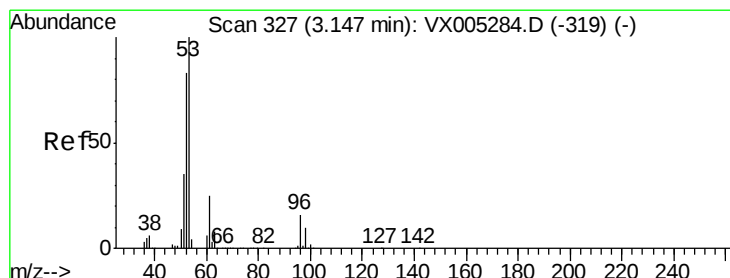
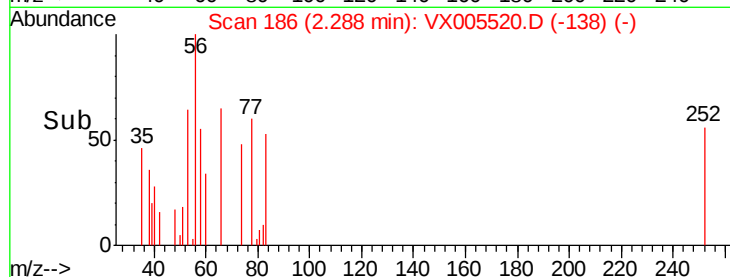


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.29

Time-->



#15

Acrylonitrile

Concen: 0.214 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX005520.D

Acq: 23 Oct 2018 14:54

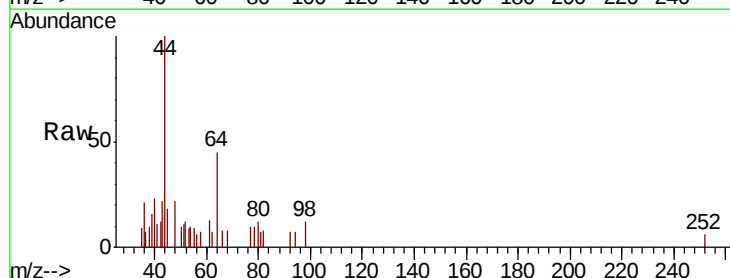
Tgt Ion: 53 Resp: 343

Ion Ratio Lower Upper

53 100

52 93.9 65.2 97.8

51 0.0 28.2 42.2#



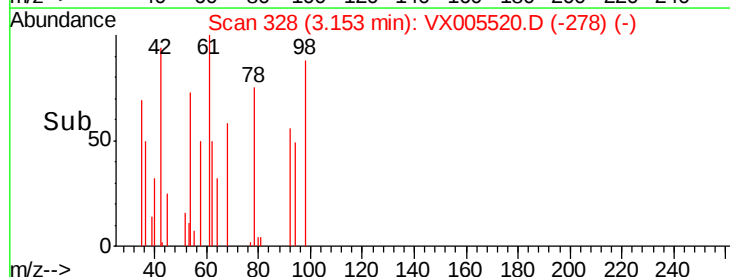
Abundance Ion 53.00 (52.70 to 53.70): VX0

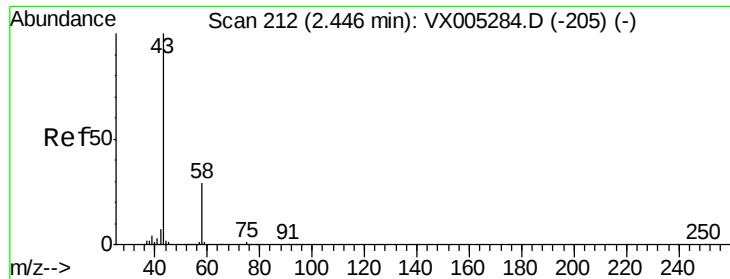
Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

3.15

Time-->





#16

Acetone

Concen: 5.400 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005520.D

Acq: 23 Oct 2018 14:54

Instrument :

MSVOA_X

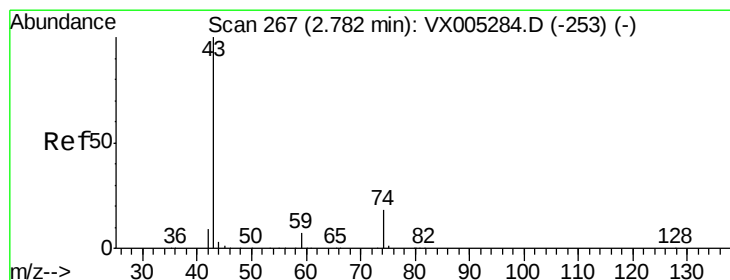
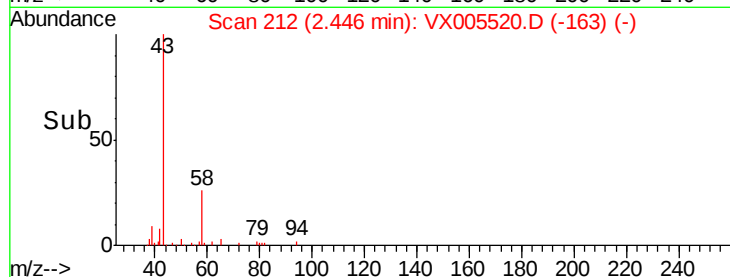
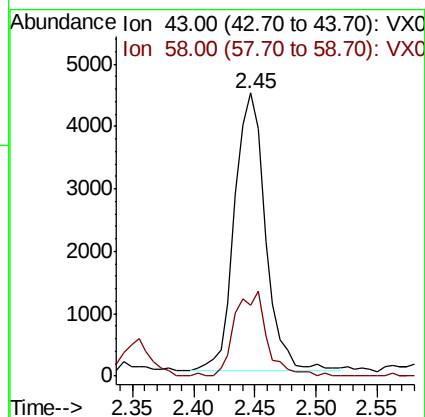
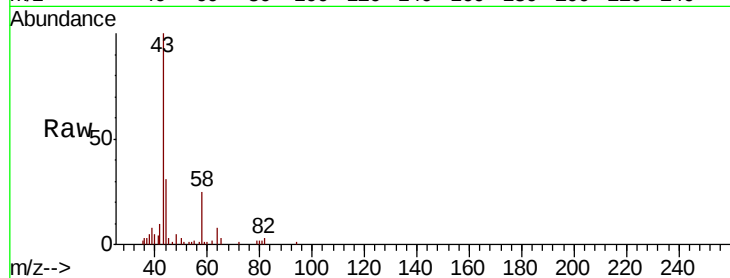
ClientSampleId :

Tot Ion: 43 Resp: 7817

Ion Ratio Lower Upper

43 100

58 25.4 26.2 39.4#



#18

Methyl Acetate

Concen: 1.538 ug/l

RT: 2.78 min Scan# 267

Delta R.T. -0.00 min

Lab File: VX005520.D

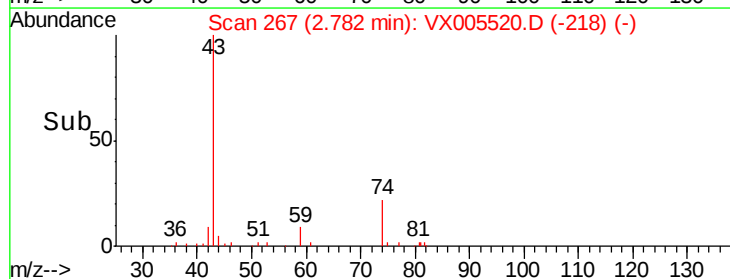
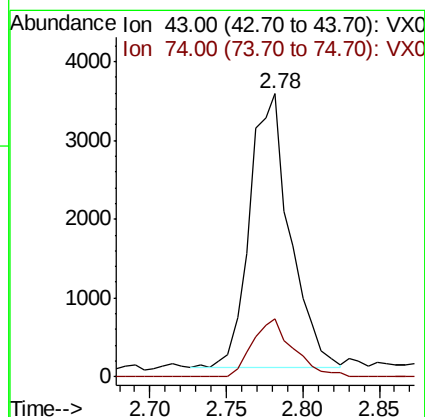
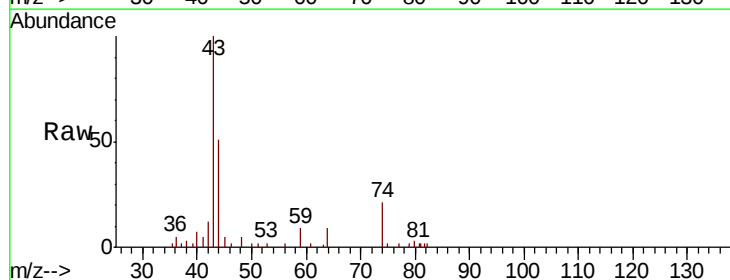
Acq: 23 Oct 2018 14:54

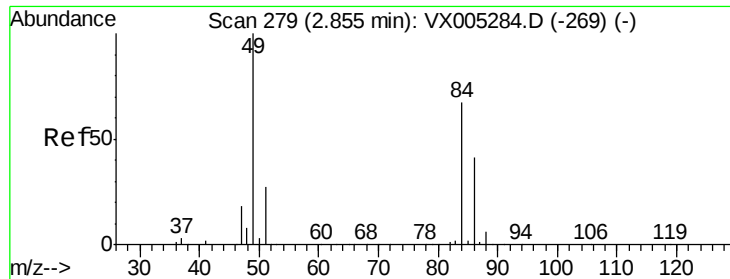
Tgt Ion: 43 Resp: 6334

Ion Ratio Lower Upper

43 100

74 21.7 19.4 29.2

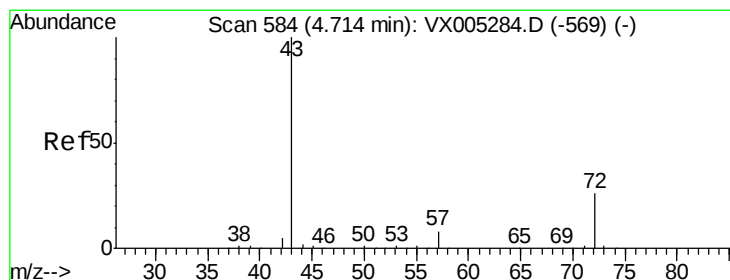
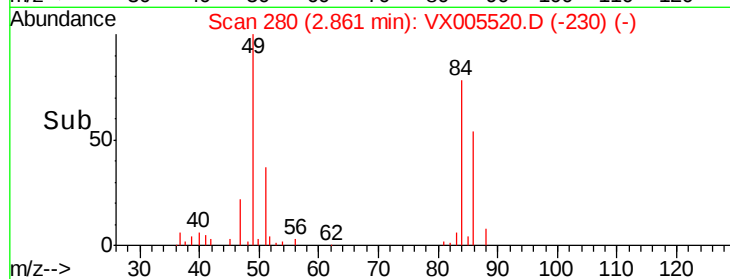
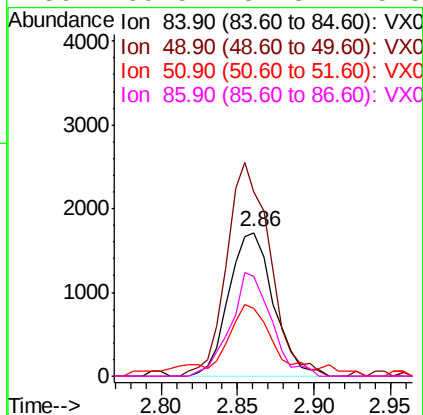
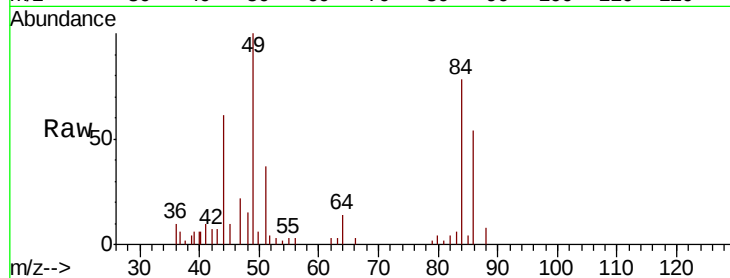




#20
Methvlene Chloride
Concen: 0.352 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005520.D
Acq: 23 Oct 2018 14:54

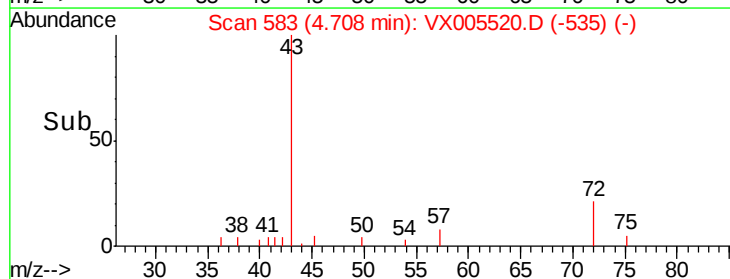
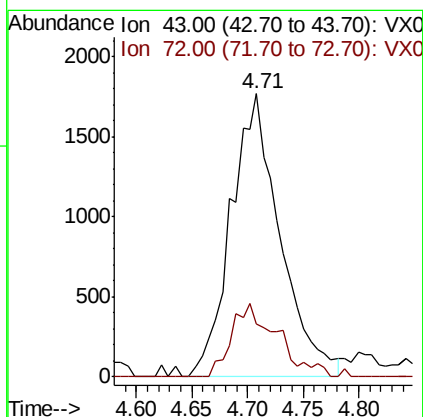
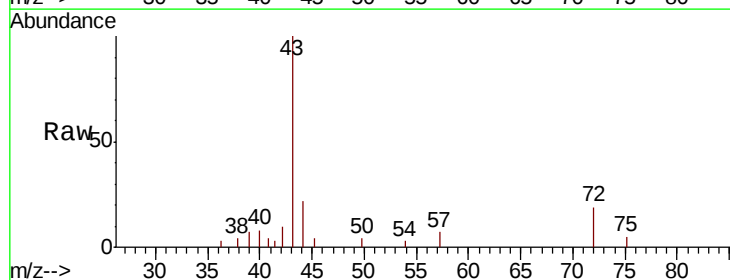
Instrument :
MSVOA_X
ClientSampleId :

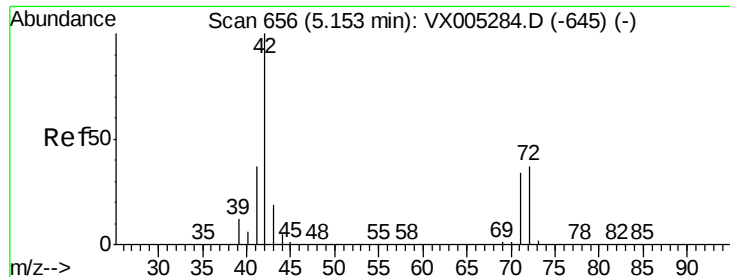
Tot Ion: 84 Resp: 3483
Ion Ratio Lower Upper
84 100
49 128.3 101.2 151.8
51 43.7 29.5 44.3
86 69.5 52.3 78.5



#25
2-Butanone
Concen: 2.569 ug/l
RT: 4.71 min Scan# 583
Delta R.T. -0.01 min
Lab File: VX005520.D
Acq: 23 Oct 2018 14:54

Tgt Ion: 43 Resp: 5442
Ion Ratio Lower Upper
43 100
72 18.9 22.0 33.0#

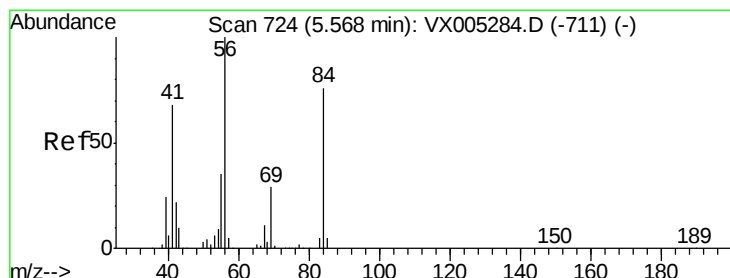
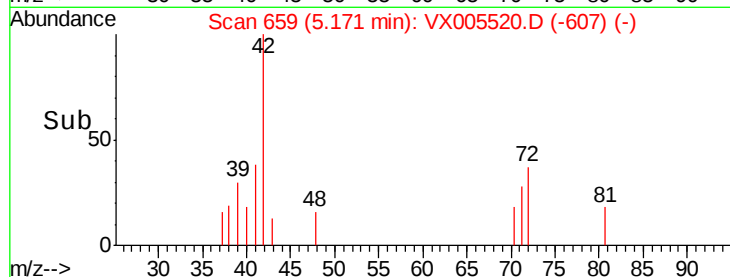
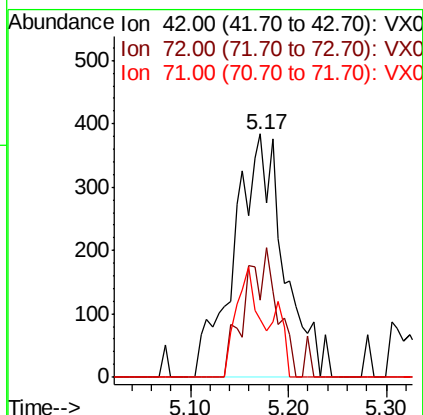
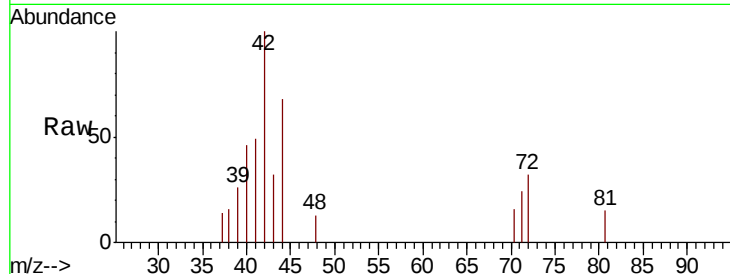




#29
Tetrahydrofuran
Concen: 1.011 ug/l
RT: 5.17 min Scan# 659
Delta R.T. 0.02 min
Lab File: VX005520.D
Acq: 23 Oct 2018 14:54

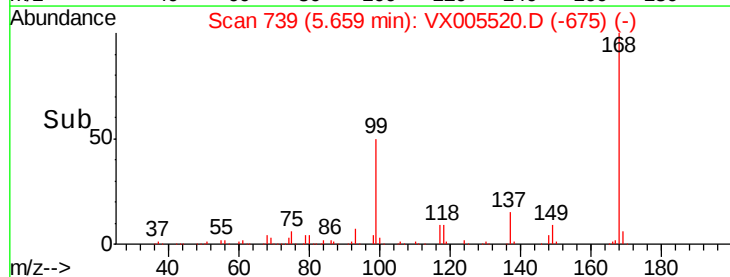
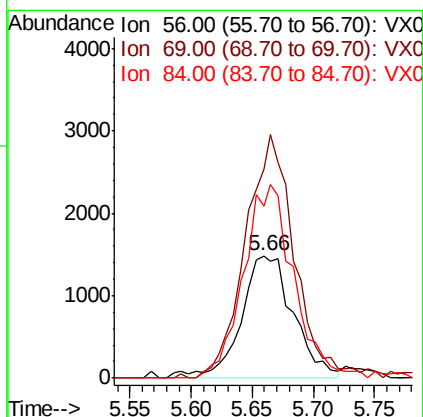
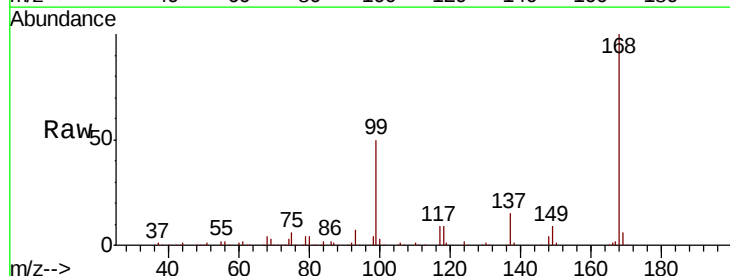
Instrument :
MSVOA_X
ClientSampled :

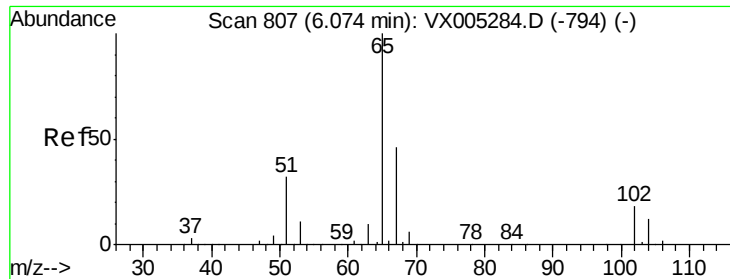
Tot Ion: 42 Resp: 1366
Ion Ratio Lower Upper
42 100
72 18.6 37.4 56.0#
71 20.6 34.5 51.7#



#31
Cyclohexane
Concen: 1.266 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX005520.D
Acq: 23 Oct 2018 14:54

Tgt Ion: 56 Resp: 4358
Ion Ratio Lower Upper
56 100
69 178.1 25.4 38.2#
84 146.4 71.4 107.2#

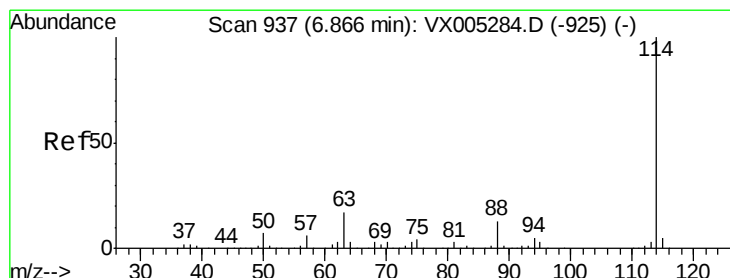
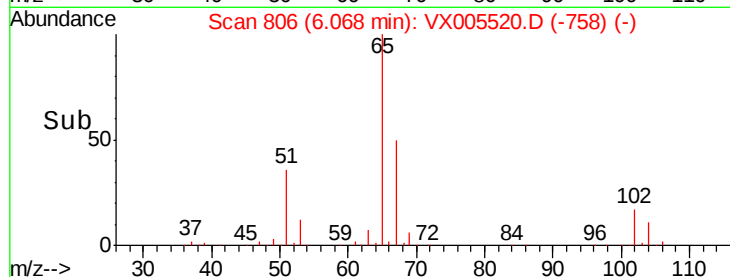
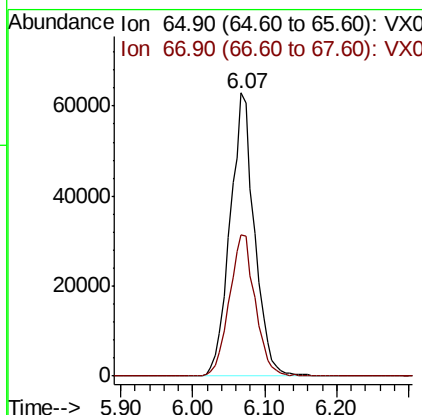
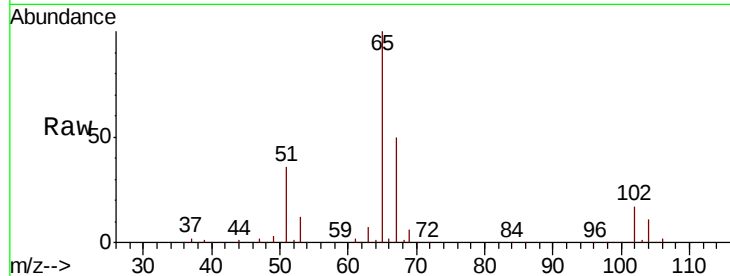




#33
 1,2-Dichloroethane-d4
 Concen: 59.356 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.01 min
 Lab File: VX005520.D
 Acq: 23 Oct 2018 14:54

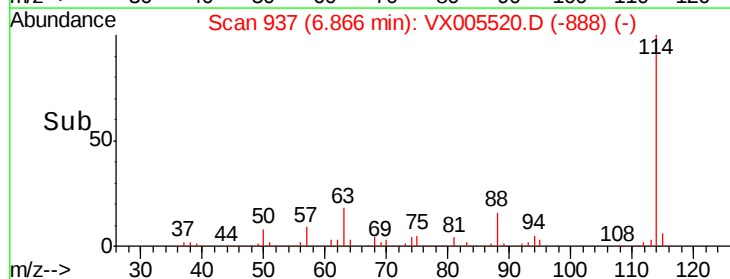
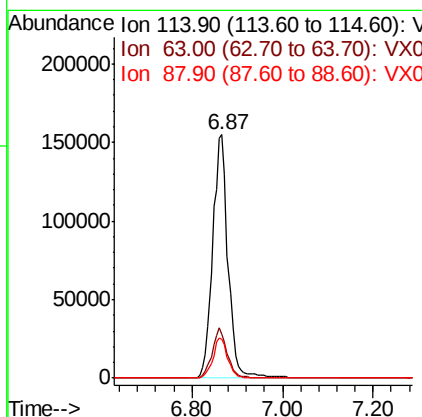
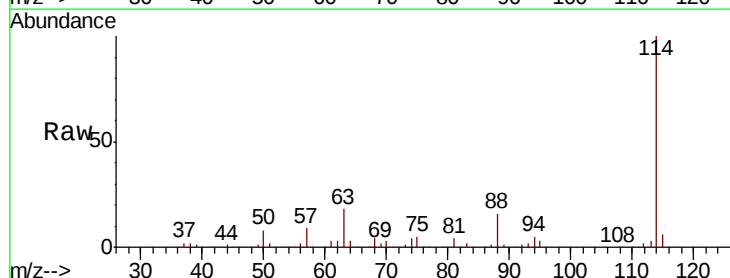
Instrument :
 MSVOA_X
 ClientSampleId :

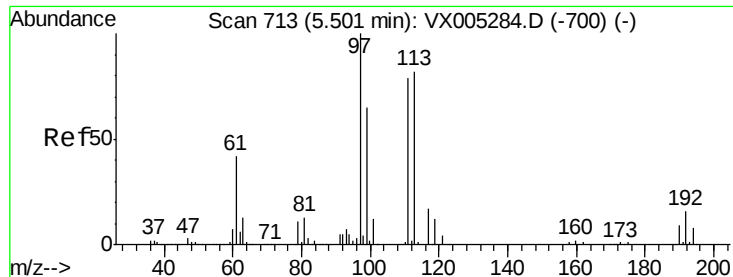
Tot Ion: 65 Resp: 148616
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.87 min Scan# 937
 Delta R.T. -0.00 min
 Lab File: VX005520.D
 Acq: 23 Oct 2018 14:54

Tgt Ion: 114 Resp: 370530
 Ion Ratio Lower Upper
 114 100
 63 18.0 0.0 39.0
 88 15.8 0.0 30.4





#35

Dibromofluoromethane

Concen: 48.387 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX005520.D

Acq: 23 Oct 2018 14:54

Instrument :
MSVOA_X
ClientSampled :

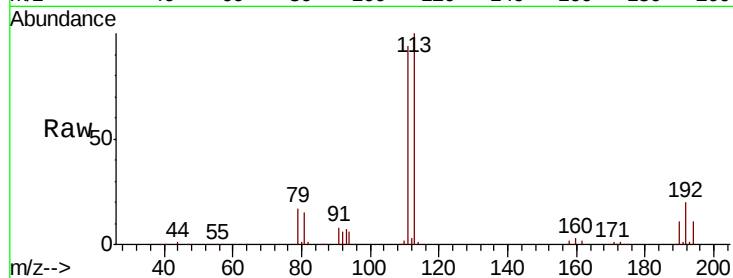
Tot Ion:113 Resp: 118748

Ion Ratio Lower Upper

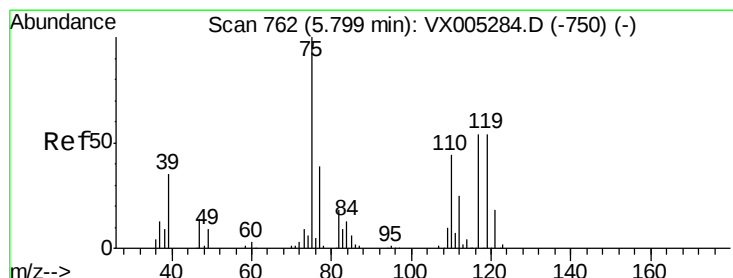
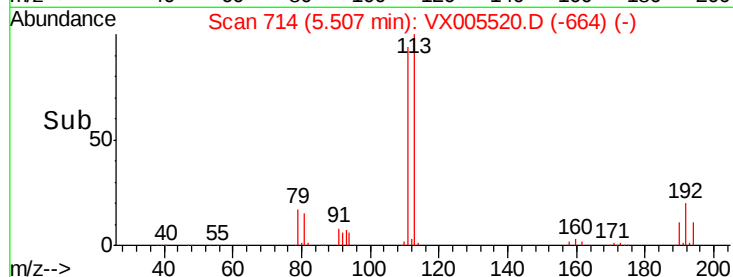
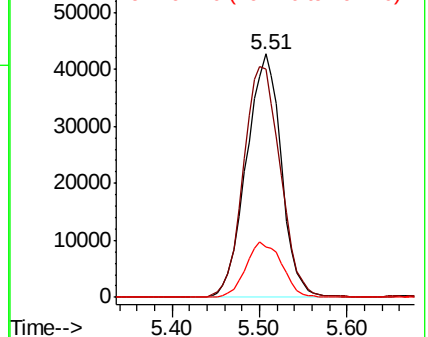
113 100

111 100.2 82.4 123.6

192 23.4 19.4 29.2



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: 4.386 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX005520.D

Acq: 23 Oct 2018 14:54

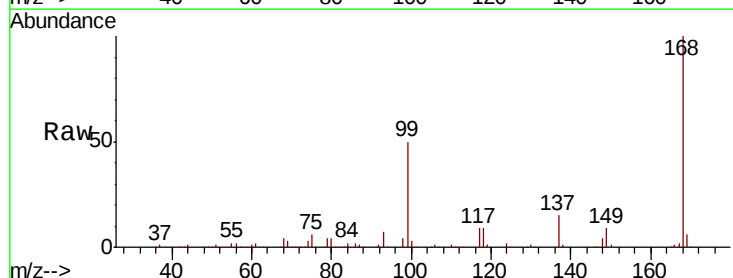
Tgt Ion: 75 Resp: 15738

Ion Ratio Lower Upper

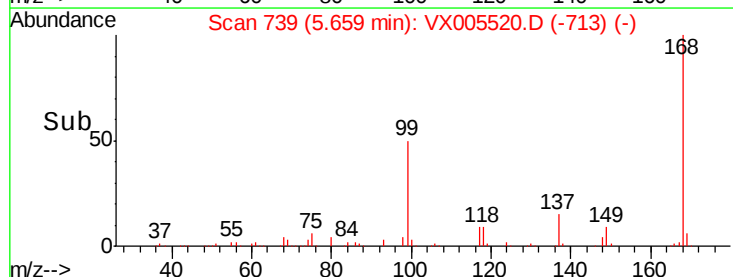
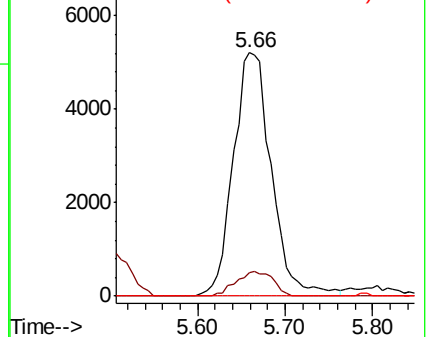
75 100

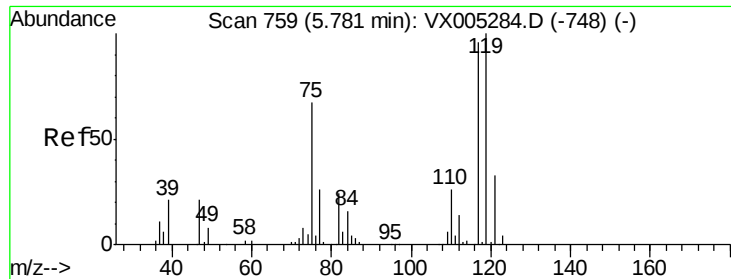
110 9.9 18.0 54.0#

77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.201 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.11 min

Lab File: VX005520.D

Acq: 23 Oct 2018 14:54

Instrument :

MSVOA_X

ClientSampled :

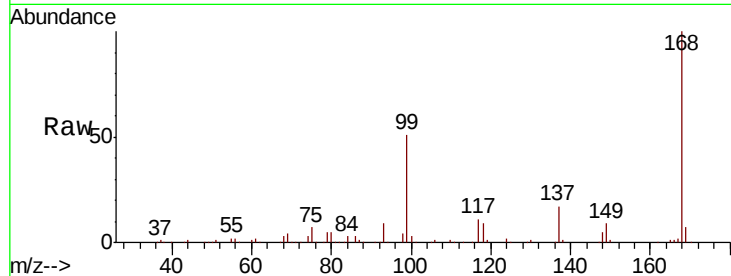
Tot Ion:117 Resp: 22360

Ion Ratio Lower Upper

117 100

119 5.9 78.8 118.2#

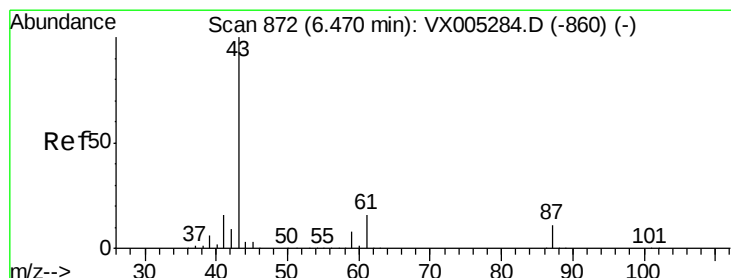
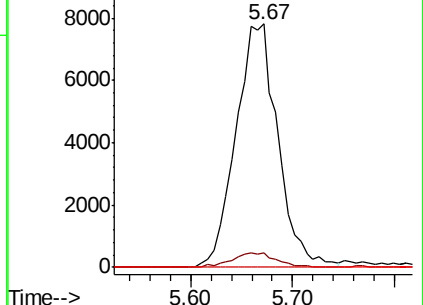
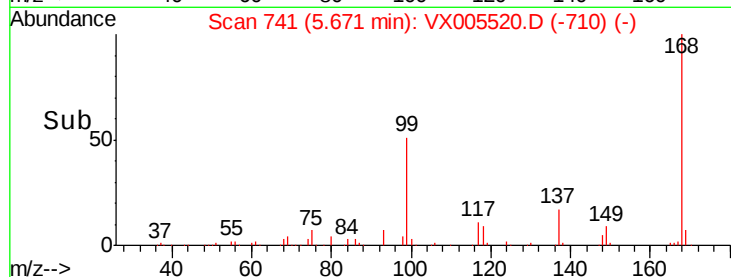
121 0.0 24.9 37.3#



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



#43

Isopropyl Acetate

Concen: 27.930 ug/l

RT: 6.46 min Scan# 871

Delta R.T. -0.01 min

Lab File: VX005520.D

Acq: 23 Oct 2018 14:54

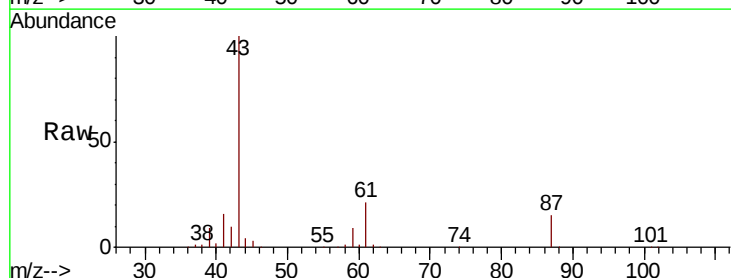
Tgt Ion: 43 Resp: 171704

Ion Ratio Lower Upper

43 100

61 18.7 17.0 25.4

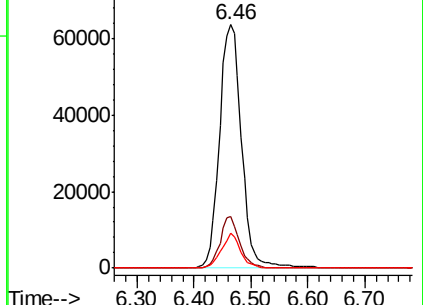
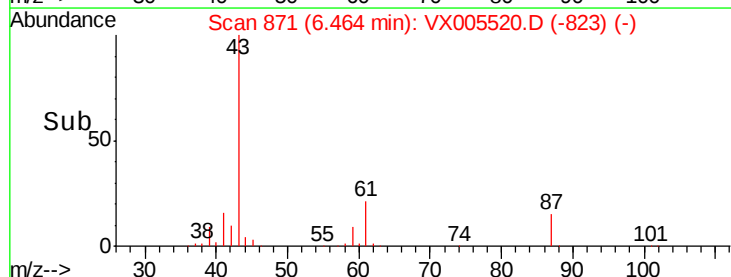
87 12.5 11.4 17.2

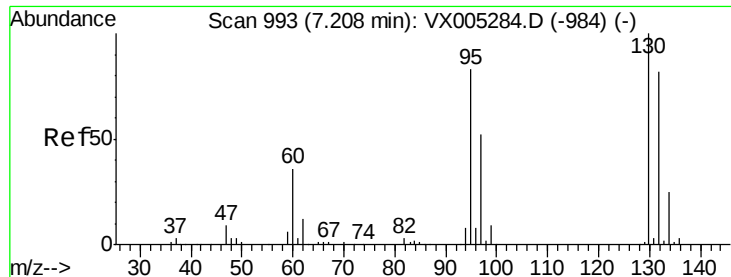


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

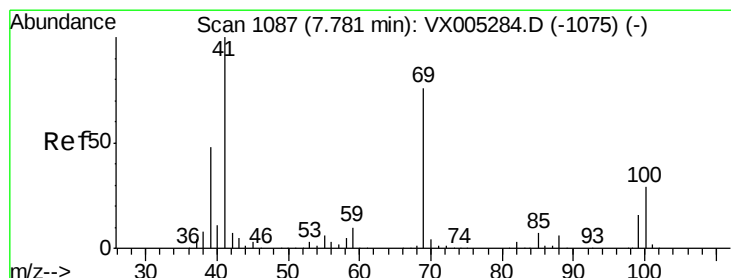
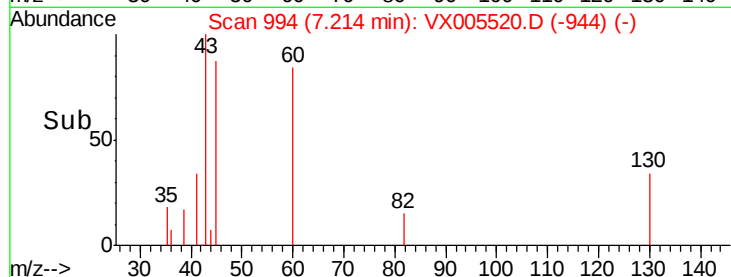
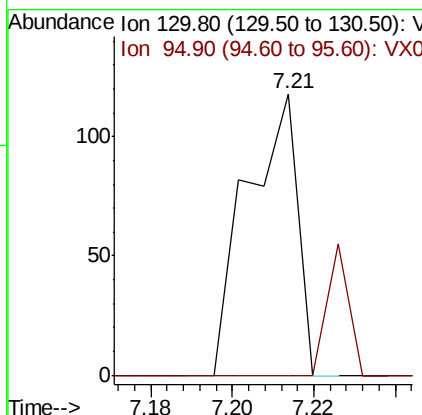
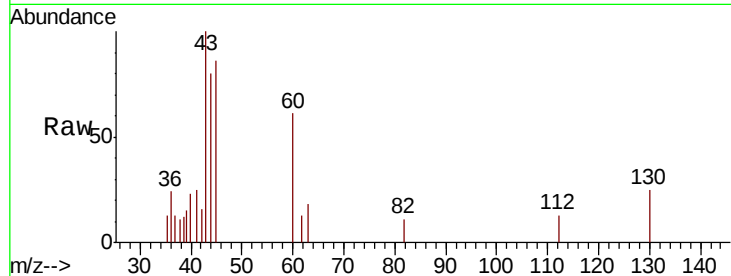




#44
 Trichloroethene
 Concen: Below Cal
 RT: 7.21 min Scan# 994
 Delta R.T. 0.01 min
 Lab File: VX005520.D
 Acq: 23 Oct 2018 14:54

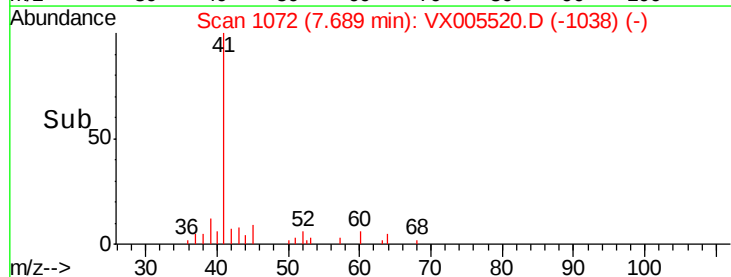
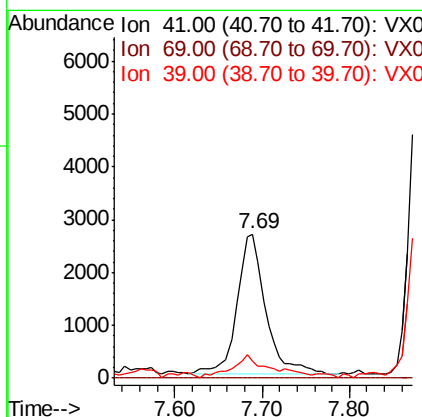
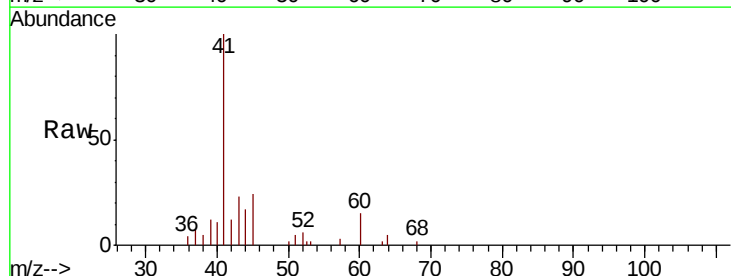
Instrument :
 MSVOA_X
 ClientSampled :

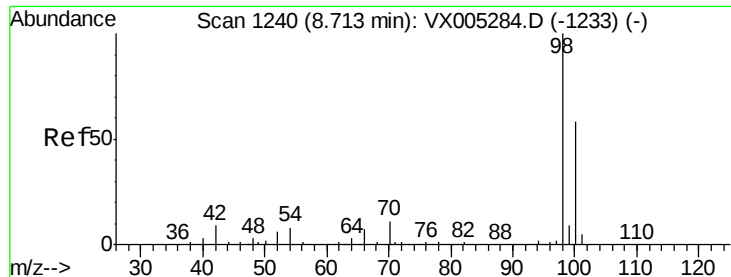
Tot Ion:130 Resp: 102
 Ion Ratio Lower Upper
 130 100
 95 0.0 0.0 181.6



#48
 Methyl methacrylate
 Concen: 1.893 ug/l
 RT: 7.69 min Scan# 1072
 Delta R.T. -0.09 min
 Lab File: VX005520.D
 Acq: 23 Oct 2018 14:54

Tgt Ion: 41 Resp: 6035
 Ion Ratio Lower Upper
 41 100
 69 0.0 70.2 105.4#
 39 18.2 42.7 64.1#





#50

Toluene-d8

Concen: 46.001 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.01 min

Lab File: VX005520.D

Acq: 23 Oct 2018 14:54

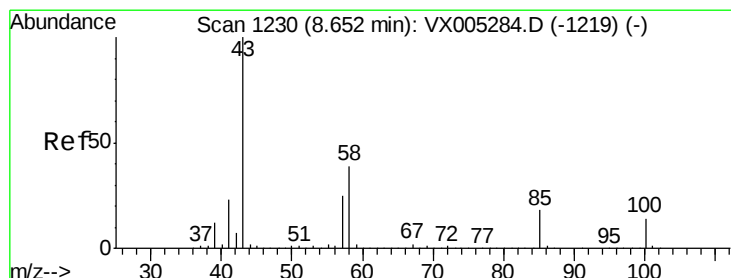
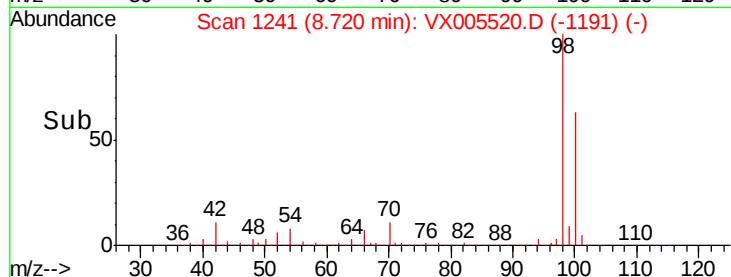
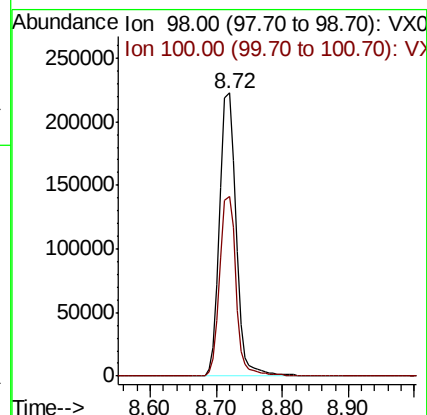
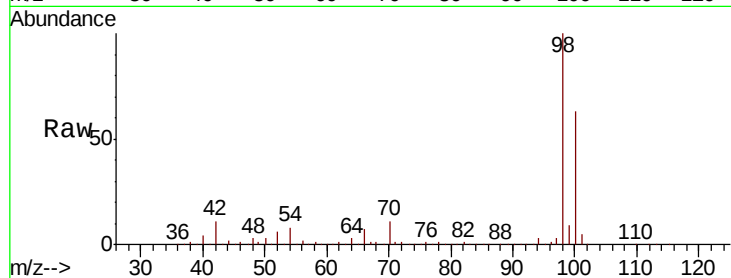
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 98 Resp: 387564

Ion Ratio Lower Upper

98 100

100 62.3 52.9 79.3



#51

4-Methyl-2-Pentanone

Concen: 0.590 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX005520.D

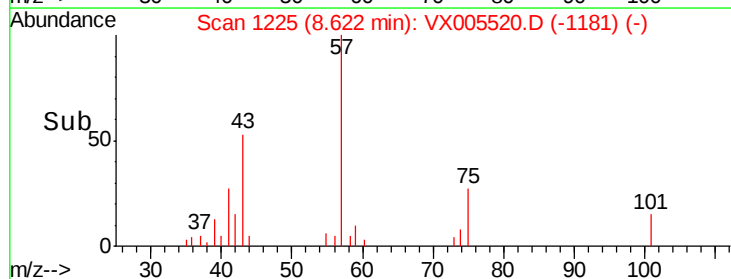
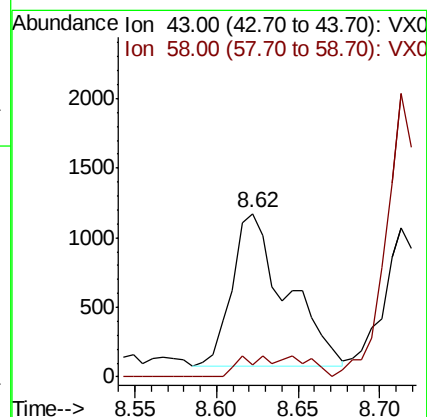
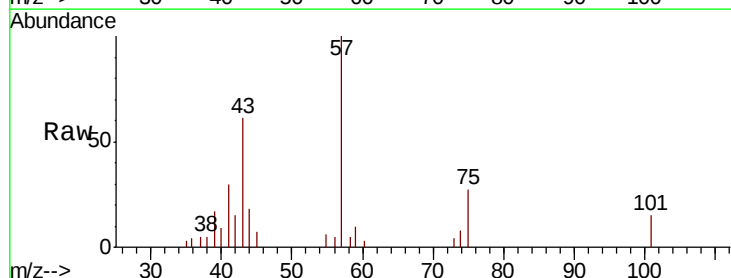
Acq: 23 Oct 2018 14:54

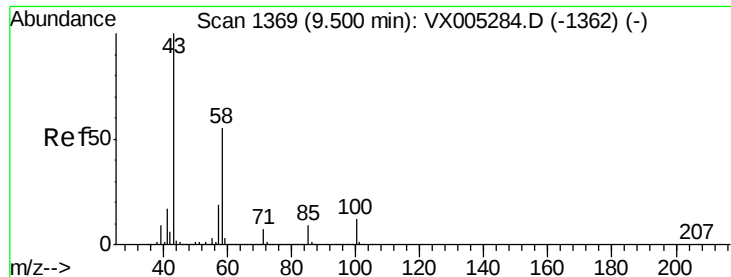
Tgt Ion: 43 Resp: 2511

Ion Ratio Lower Upper

43 100

58 4.5 33.1 49.7#

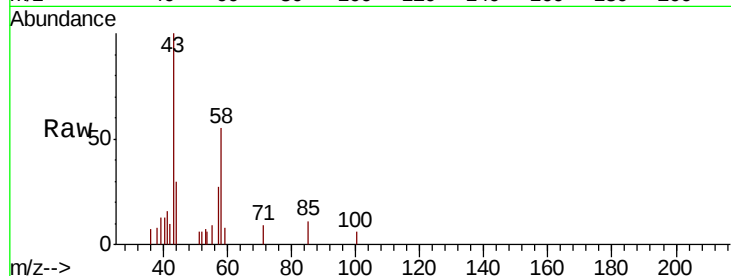




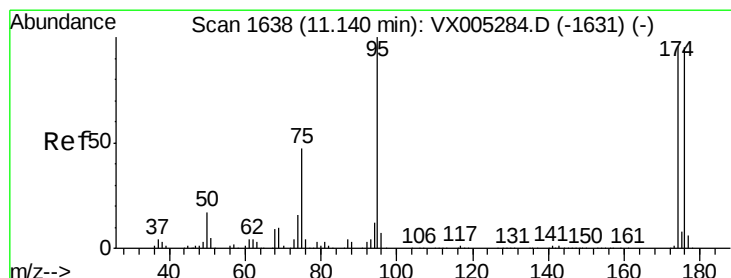
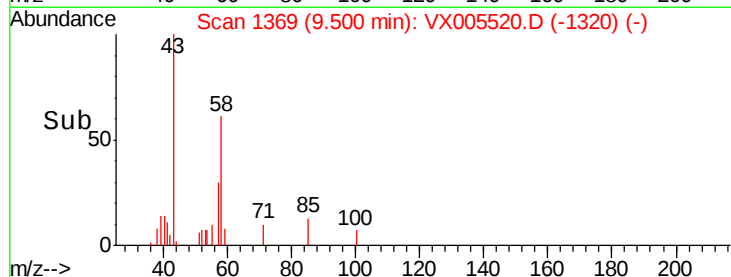
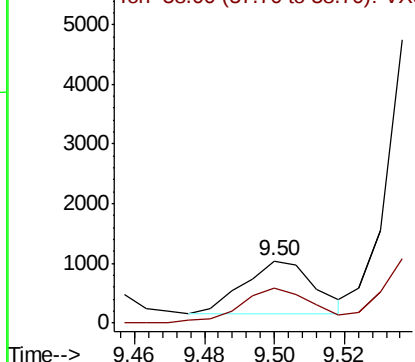
#59
2-Hexanone
Concen: 0.355 ug/l
RT: 9.50 min Scan# 1369
Delta R.T. -0.00 min
Lab File: VX005520.D
Acq: 23 Oct 2018 14:54

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 1214
Ion Ratio Lower Upper
43 100
58 68.9 29.0 87.0

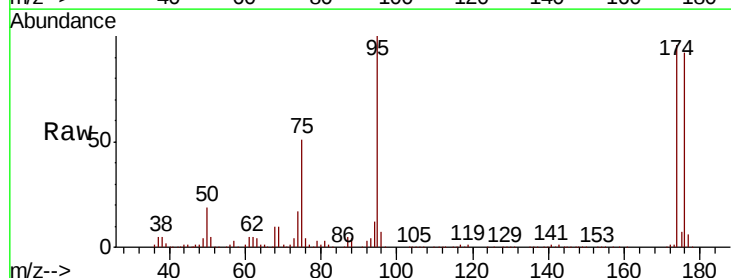


Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

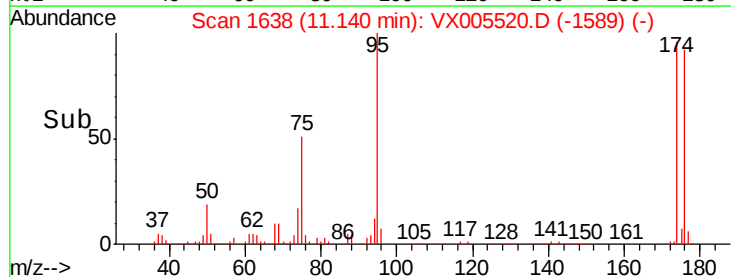
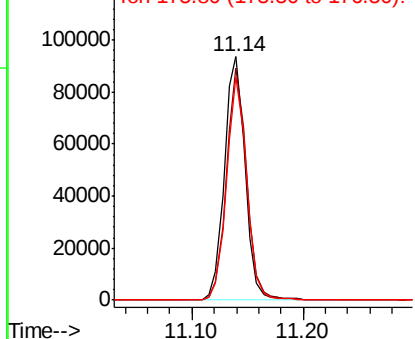


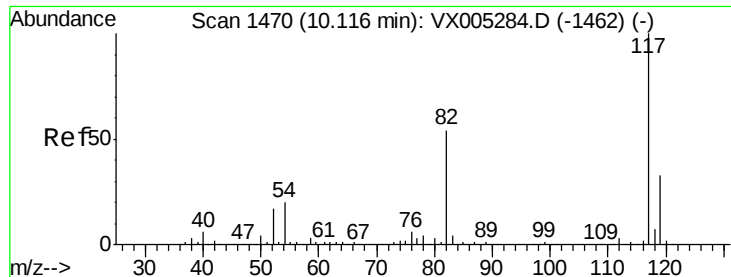
#62
4-Bromofluorobenzene
Concen: 38.012 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005520.D
Acq: 23 Oct 2018 14:54

Tgt Ion: 95 Resp: 120308
Ion Ratio Lower Upper
95 100
174 93.4 0.0 185.2
176 89.0 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

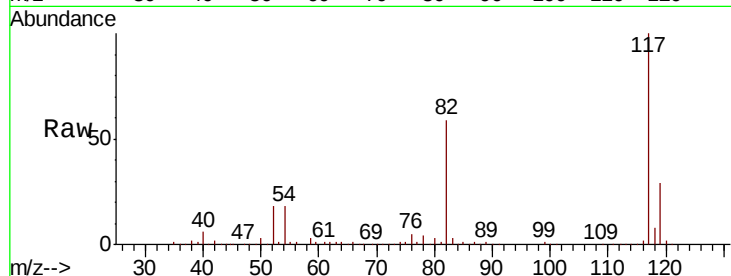




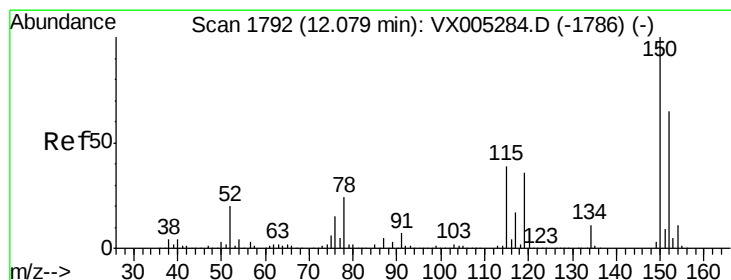
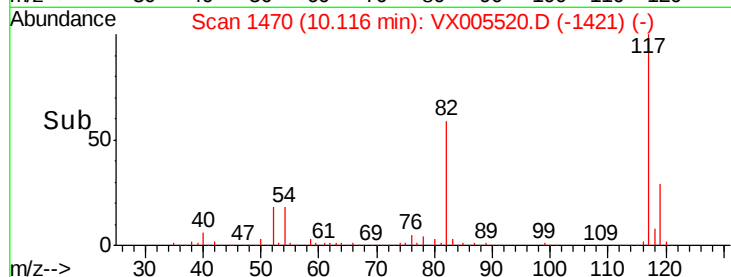
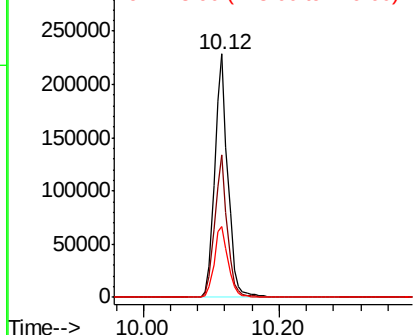
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005520.D
Acq: 23 Oct 2018 14:54

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 303705
Ion Ratio Lower Upper
117 100
82 58.6 47.8 71.6
119 28.8 29.3 43.9#

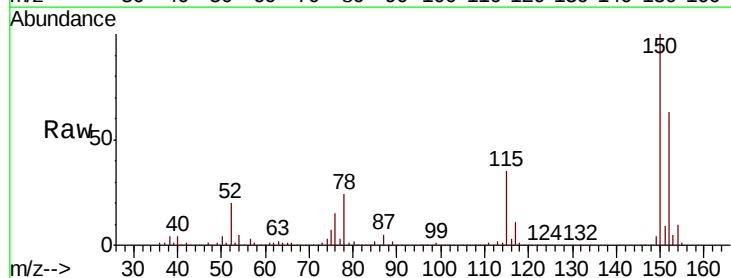


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

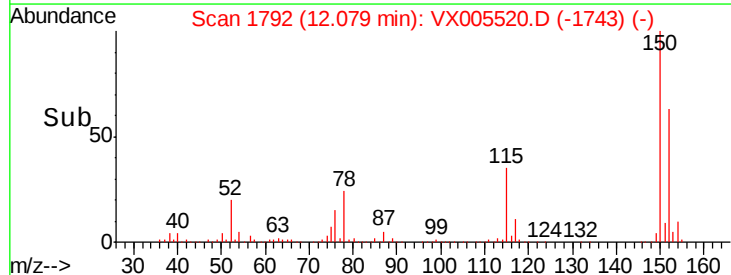
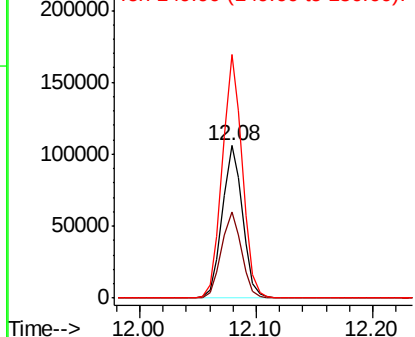


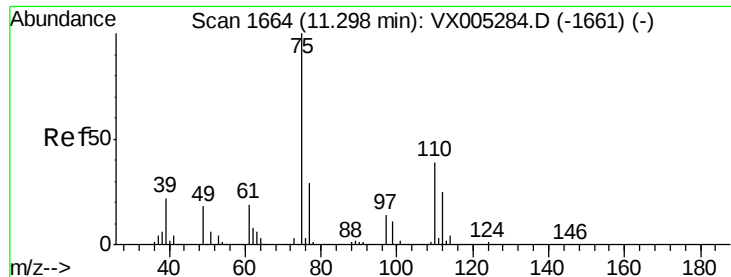
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005520.D
Acq: 23 Oct 2018 14:54

Tgt Ion:152 Resp: 126793
Ion Ratio Lower Upper
152 100
115 56.2 39.0 117.0
150 157.5 0.0 351.0



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: 24.791 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005520.D

Acq: 23 Oct 2018 14:54

Instrument :

MSVOA_X

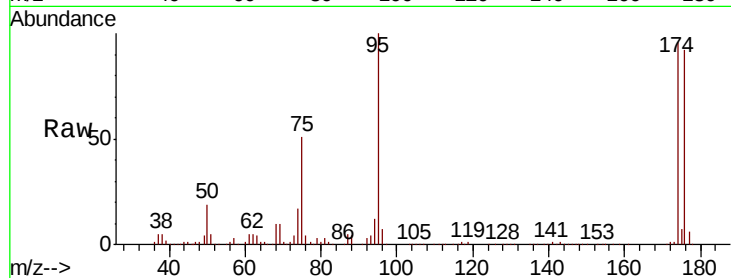
ClientSampled :

Tot Ion: 75 Resp: 60972

Ion Ratio Lower Upper

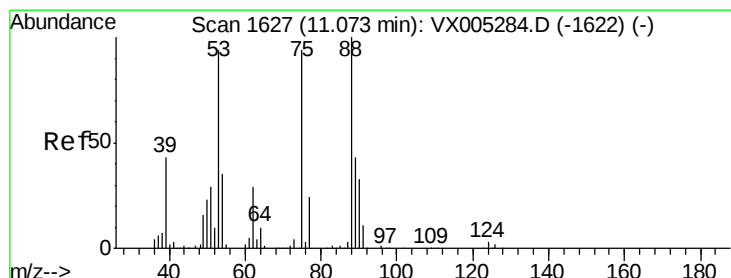
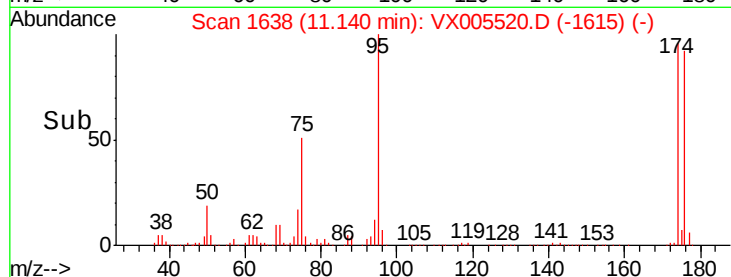
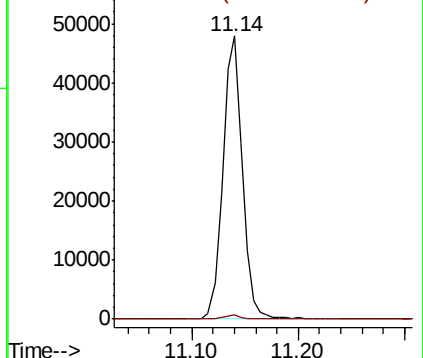
75 100

77 1.5 20.2 60.6#



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: 75.327 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005520.D

Acq: 23 Oct 2018 14:54

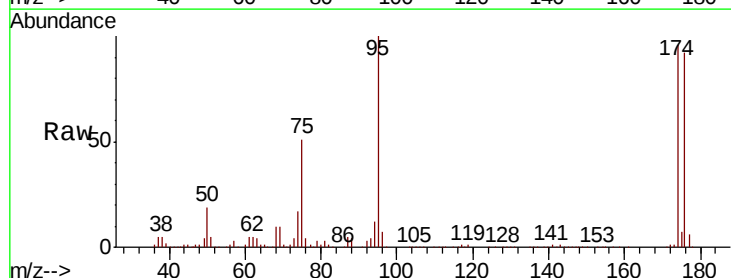
Tgt Ion: 75 Resp: 60972

Ion Ratio Lower Upper

75 100

53 0.4 80.1 120.1#

89 0.0 37.2 55.8#



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

