

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102318\
 Data File : VX005524.D
 Acq On : 23 Oct 2018 16:40
 Operator : JC/MD
 Sample : J5639-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 24 01:14:54 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	5.67	168	239641	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	340362	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	289034	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	139043	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	140461	52.81	ug/l	0.00
Spiked Amount			Recovery	=	105.62%	
35) Dibromofluoromethane	5.50	113	117951	52.32	ug/l	0.00
Spiked Amount			Recovery	=	104.64%	
50) Toluene-d8	8.71	98	383864	49.60	ug/l	0.00
Spiked Amount			Recovery	=	99.20%	
62) 4-Bromofluorobenzene	11.14	95	127782	43.95	ug/l	0.00
Spiked Amount			Recovery	=	87.90%	

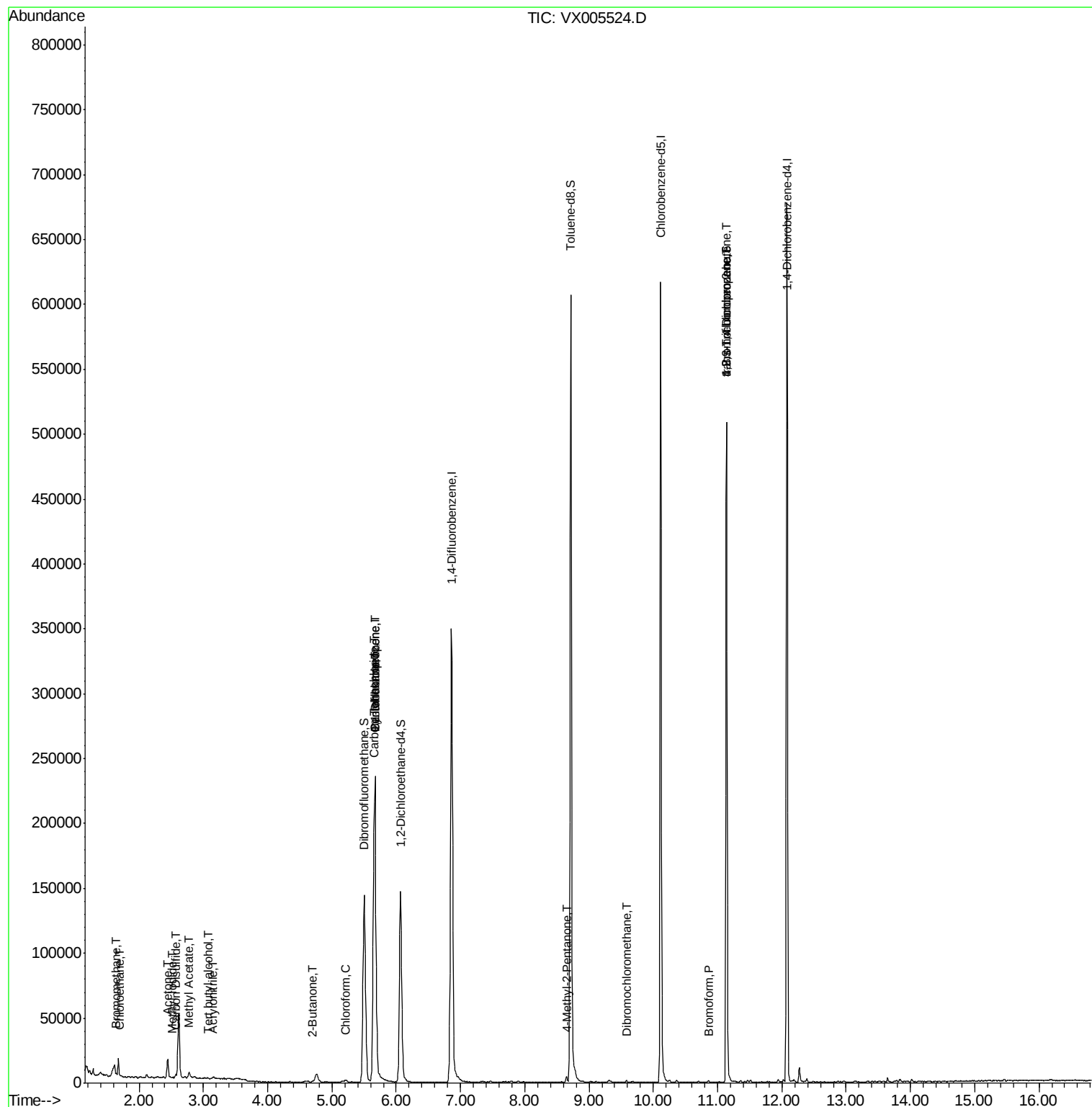
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	440	0.864	ug/l #	59
6) Chloroethane	1.70	64	44	0.359	ug/l #	1
10) Methyl Iodide	2.51	142	408	2.656	ug/l #	88
11) Tert butyl alcohol	3.07	59	1018	1.357	ug/l #	72
13) Acrolein	2.30	56	343	Below Cal	#	56
15) Acrylonitrile	3.14	53	619	0.364	ug/l #	63
16) Acetone	2.45	43	15270	9.930	ug/l #	87
17) Carbon Disulfide	2.57	76	3174	0.499	ug/l	97
18) Methyl Acetate	2.78	43	5499	1.257	ug/l	98
20) Methylene Chloride	2.85	84	524	Below Cal	#	80
25) 2-Butanone	4.70	43	1031	0.458	ug/l #	47
30) Chloroform	5.21	83	1567	0.381	ug/l	87
31) Cyclohexane	5.67	56	4641	1.269	ug/l #	42
36) 1,1-Dichloropropene	5.67	75	16465	4.995	ug/l #	50
38) Carbon Tetrachloride	5.65	117	21750	6.567	ug/l #	15
44) Trichloroethene	7.21	130	102	Below Cal		88
51) 4-Methyl-2-Pentanone	8.65	43	2675	0.684	ug/l	93
60) Dibromochloromethane	9.59	129	601	0.254	ug/l	95
71) Bromoform	10.86	173	405	0.207	ug/l #	74
76) 1,2,3-Trichloropropane	11.14	75	64335	23.854	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	64335	72.480	ug/l #	10

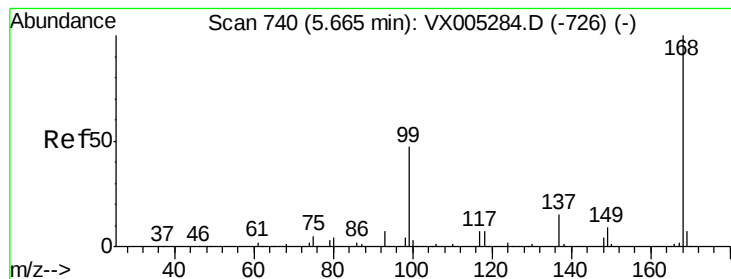
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX102318\
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ClientSampled :

Quant Time: Oct 24 01:14:54 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
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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: 5.67 min Scan# 741

Delta R.T. 0.01 min

Lab File: VX005524.D

Acq: 23 Oct 2018 16:40

Instrument :

MSVOA_X

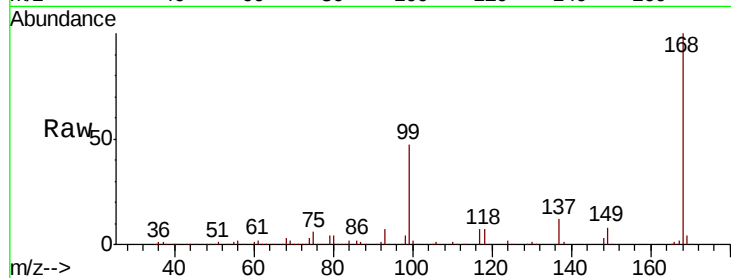
ClientSampleId :

Tot Ion:168 Resp: 239641

Ion Ratio Lower Upper

168 100

99 47.3 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

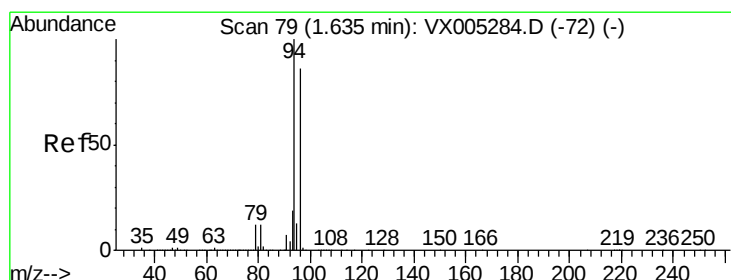
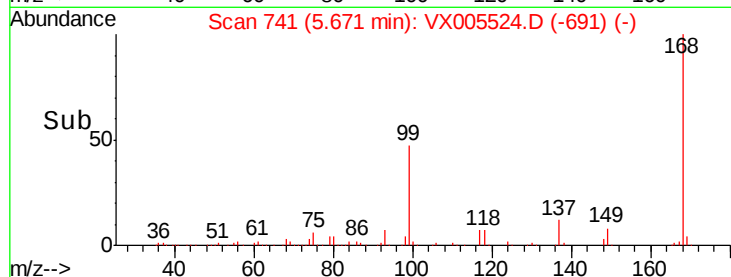
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.864 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005524.D

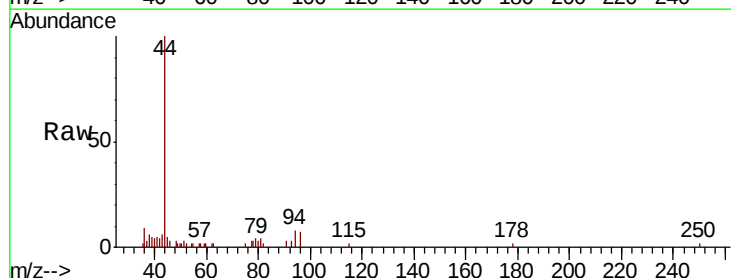
Acq: 23 Oct 2018 16:40

Tgt Ion: 94 Resp: 440

Ion Ratio Lower Upper

94 100

96 132.4 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

300

250

200

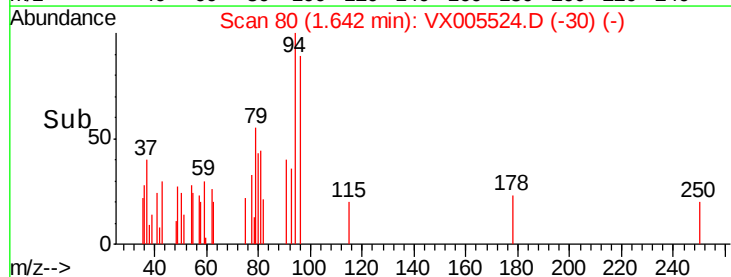
150

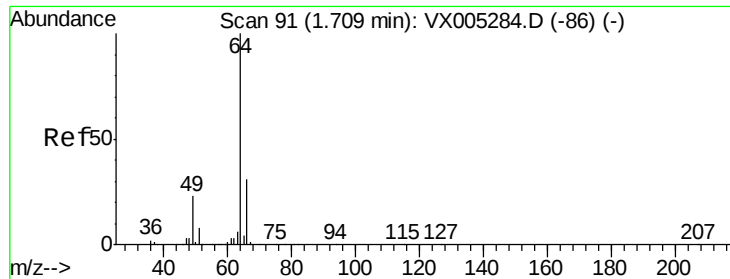
100

50

0

Time--> 1.60 1.65





#6

Chloroethane

Concen: 0.359 ug/l

RT: 1.70 min Scan# 90

Delta R.T. -0.01 min

Lab File: VX005524.D

Acq: 23 Oct 2018 16:40

Instrument :

MSVOA_X

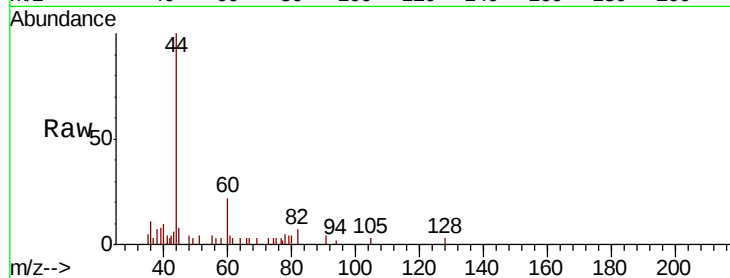
ClientSampleId :

Tot Ion: 64 Resp: 44

Ion Ratio Lower Upper

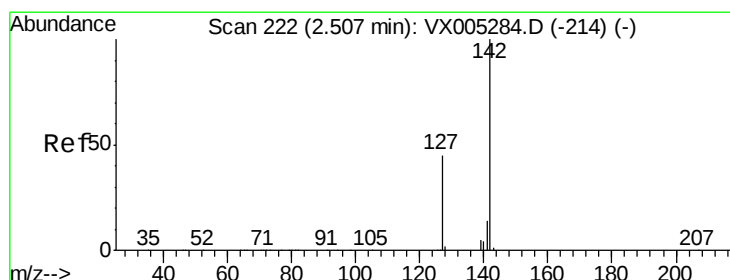
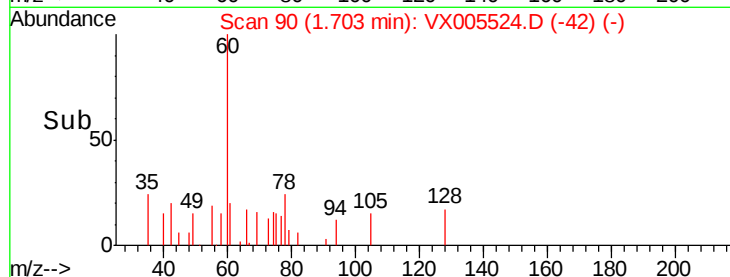
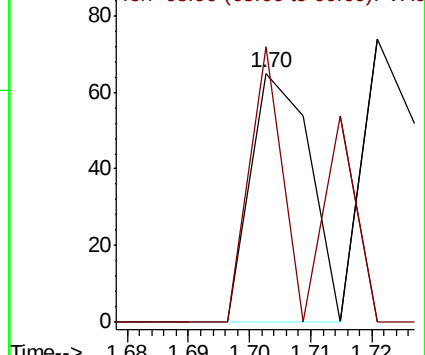
64 100

66 110.8 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 2.656 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX005524.D

Acq: 23 Oct 2018 16:40

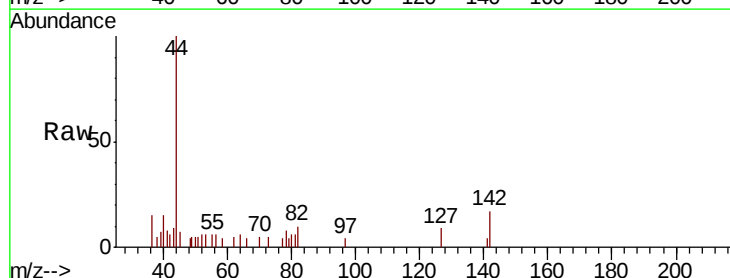
Tgt Ion: 142 Resp: 408

Ion Ratio Lower Upper

142 100

127 34.6 33.8 50.6

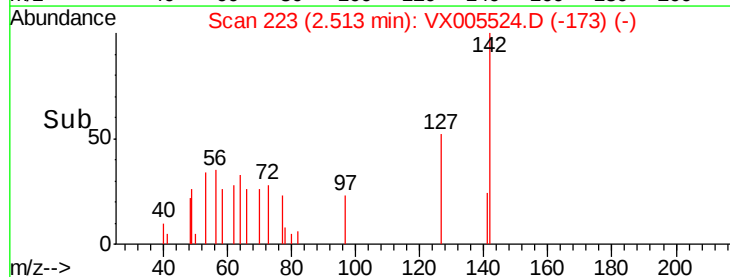
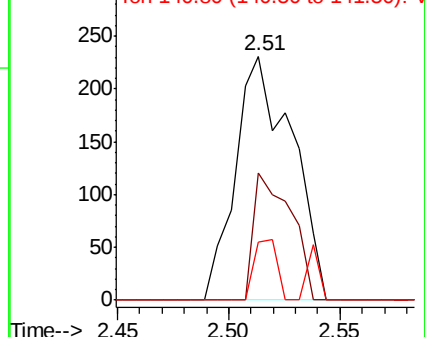
141 10.0 11.4 17.0#

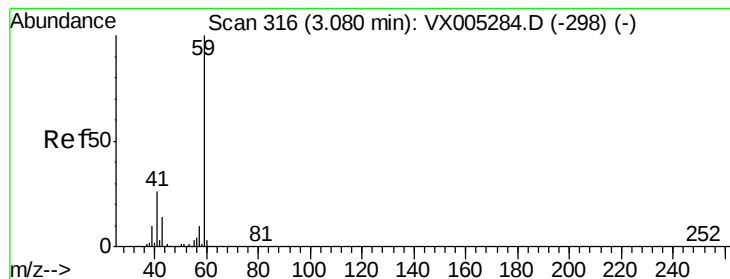


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



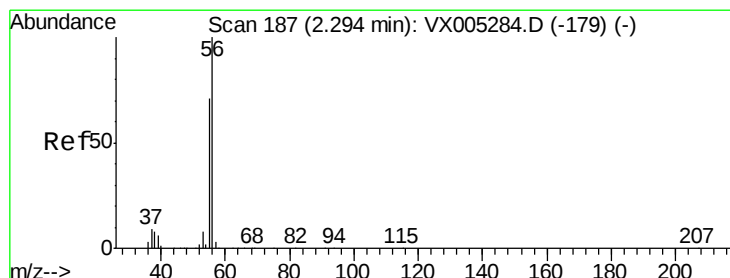
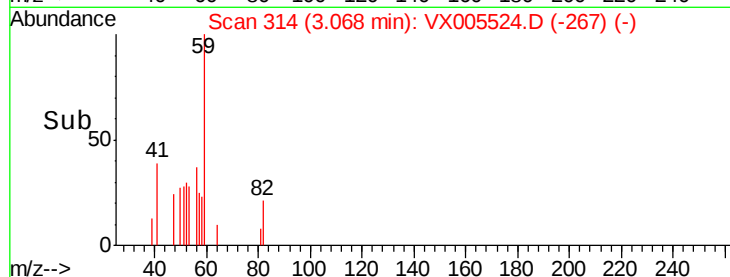
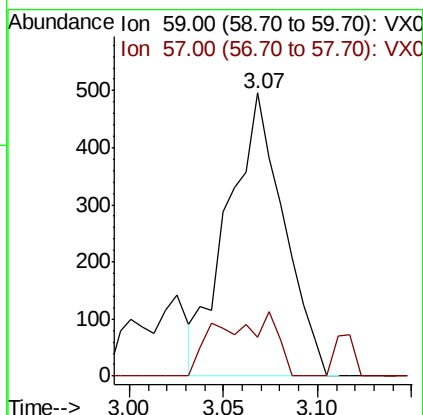
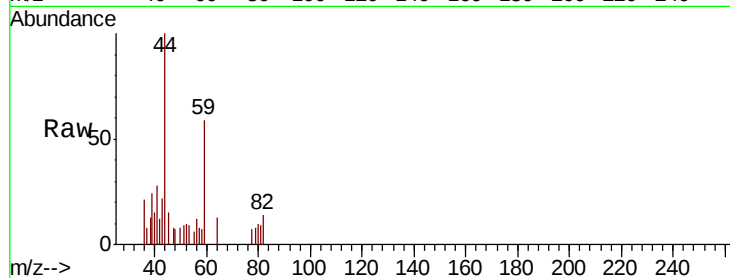


#11

Tert butyl alcohol
 Concen: 1.357 ug/l
 RT: 3.07 min Scan# 314
 Delta R.T. -0.01 min
 Lab File: VX005524.D
 Acq: 23 Oct 2018 16:40

Instrument :
 MSVOA_X
 ClientSampled :

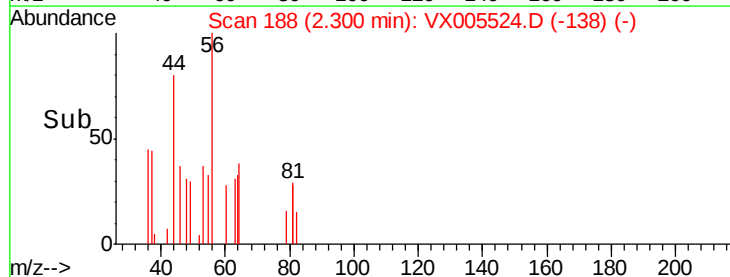
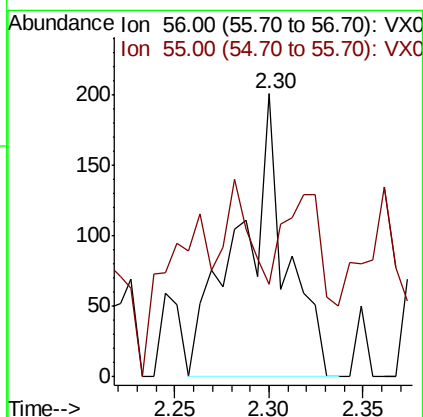
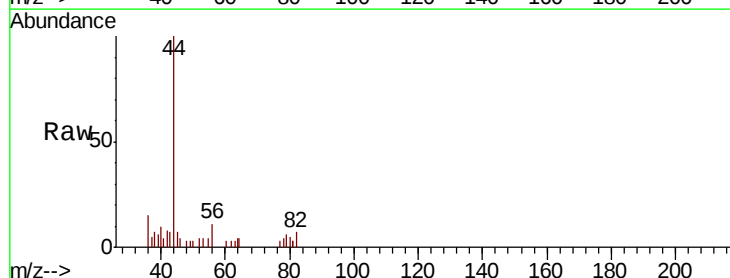
Tot Ion: 59 Resp: 1018
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.4#

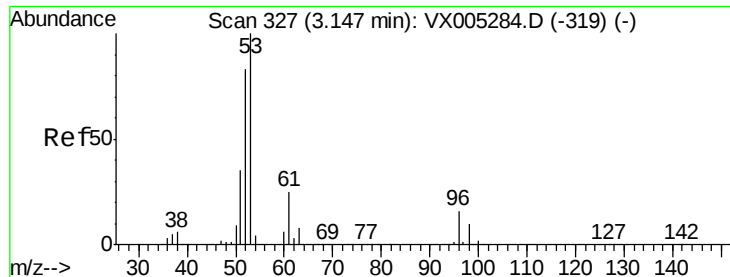


#13

Acrolein
 Concen: Below Cal
 RT: 2.30 min Scan# 188
 Delta R.T. 0.01 min
 Lab File: VX005524.D
 Acq: 23 Oct 2018 16:40

Tgt Ion: 56 Resp: 343
 Ion Ratio Lower Upper
 56 100
 55 32.9 54.7 82.1#





#15

Acrylonitrile

Concen: 0.364 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.01 min

Lab File: VX005524.D

Acq: 23 Oct 2018 16:40

Instrument :

MSVOA_X

ClientSampled :

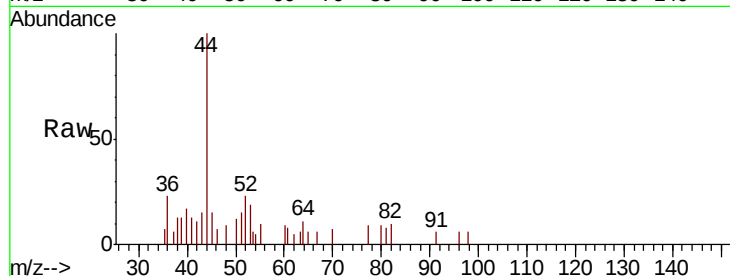
Tot Ion: 53 Resp: 619

Ion Ratio Lower Upper

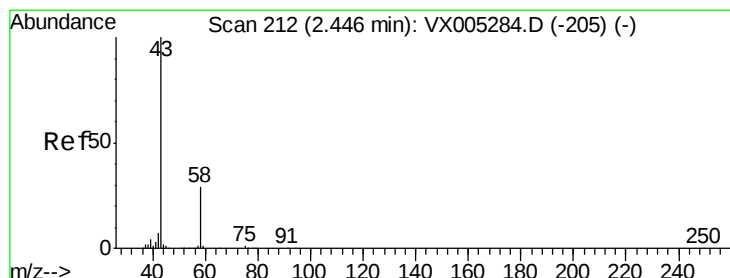
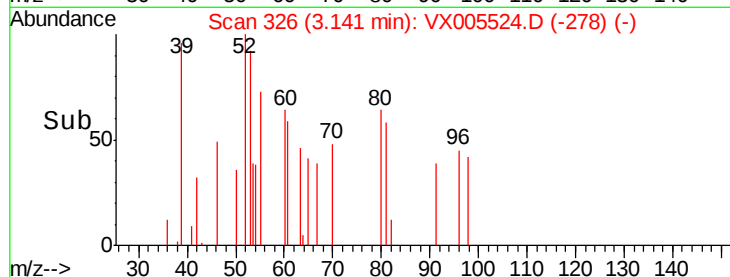
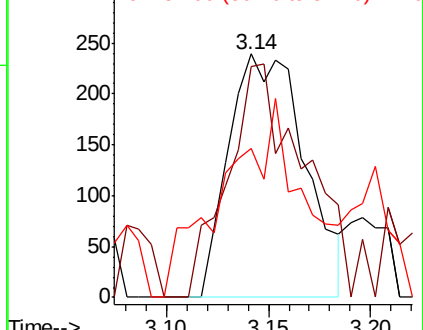
53 100

52 95.8 65.2 97.8

51 84.5 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



#16

Acetone

Concen: 9.930 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005524.D

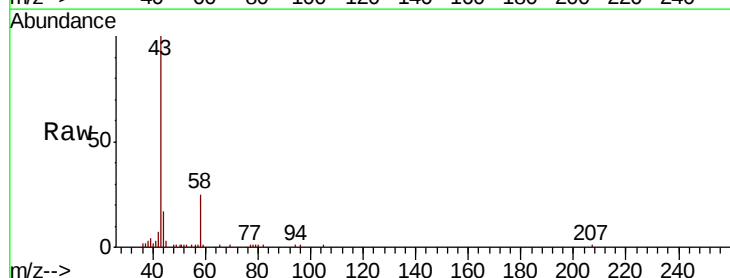
Acq: 23 Oct 2018 16:40

Tgt Ion: 43 Resp: 15270

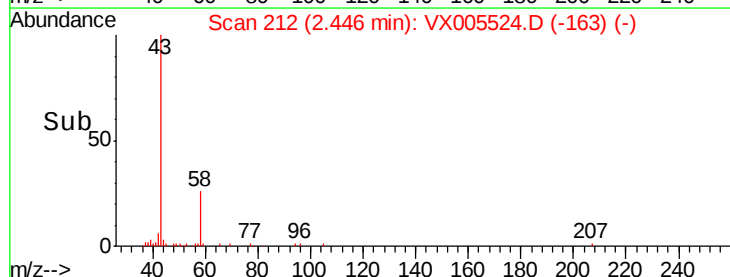
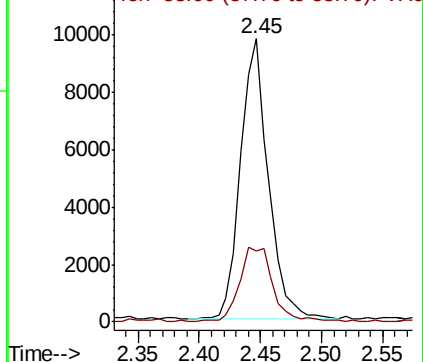
Ion Ratio Lower Upper

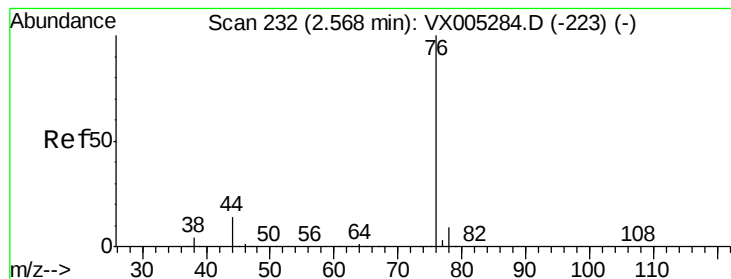
43 100

58 25.5 26.2 39.4#



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





#17

Carbon Disulfide

Concen: 0.499 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX005524.D

Acq: 23 Oct 2018 16:40

Instrument :

MSVOA_X

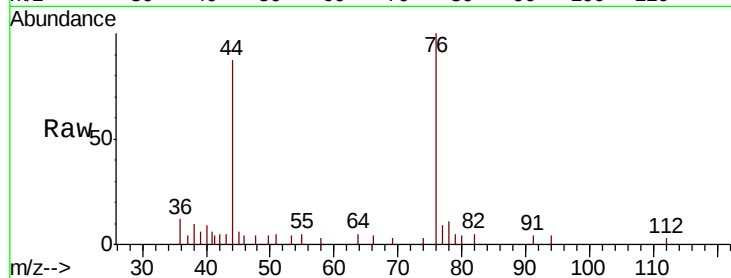
ClientSampled :

Tot Ion: 76 Resp: 3174

Ion Ratio Lower Upper

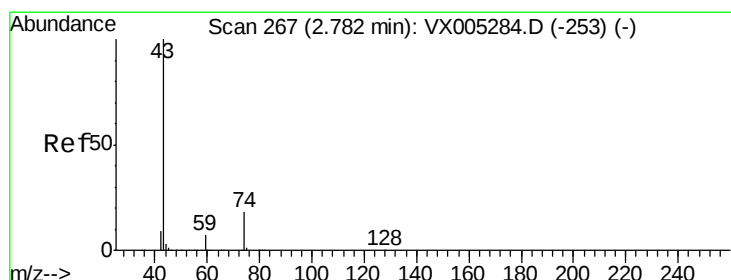
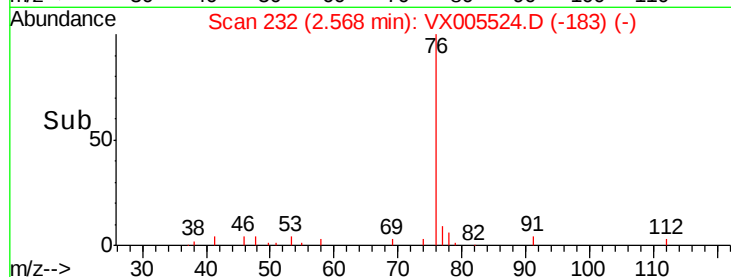
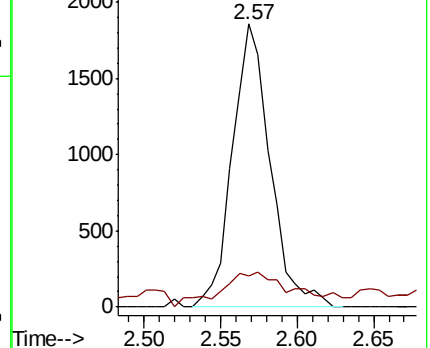
76 100

78 7.8 7.0 10.6



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 1.257 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX005524.D

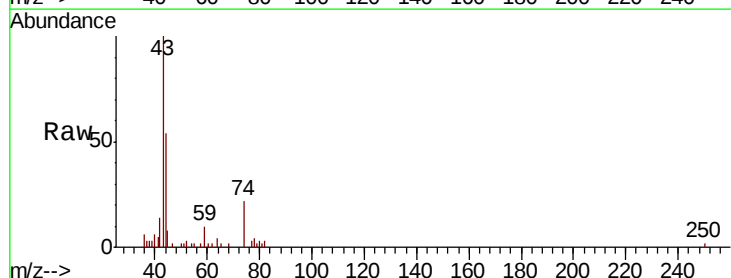
Acq: 23 Oct 2018 16:40

Tgt Ion: 43 Resp: 5499

Ion Ratio Lower Upper

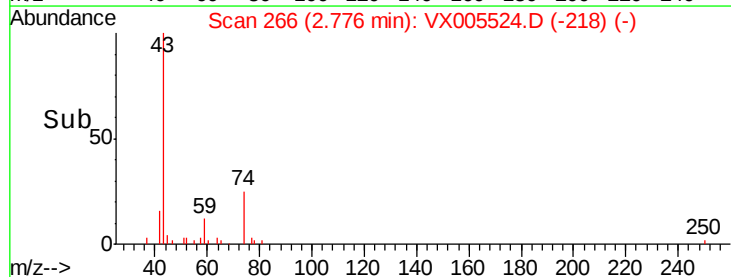
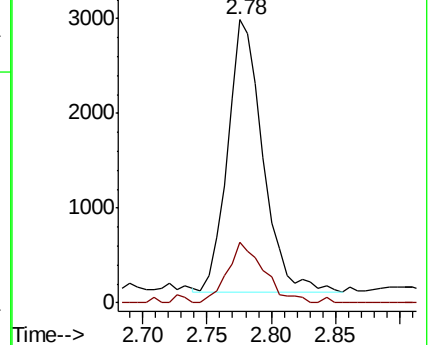
43 100

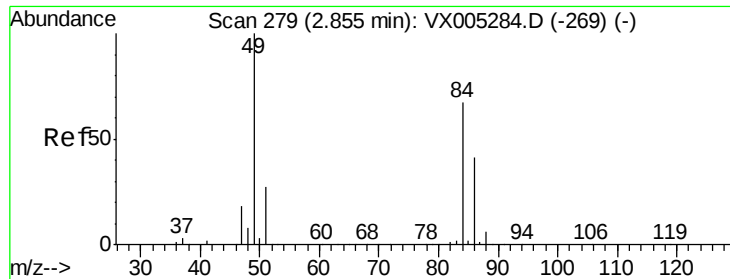
74 23.1 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

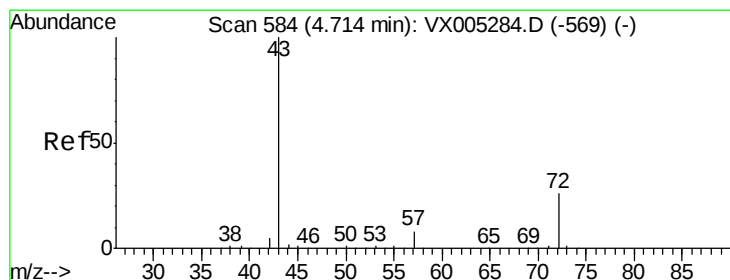
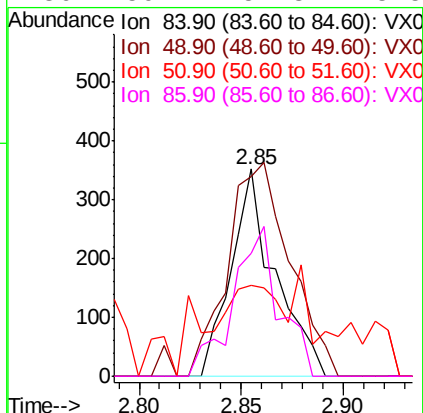
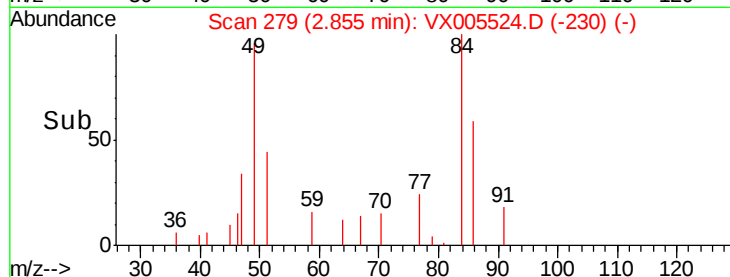
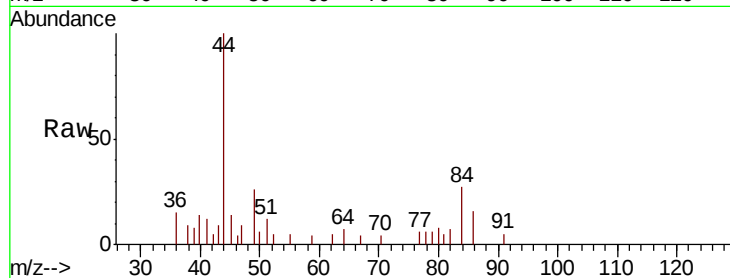




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX005524.D
Acq: 23 Oct 2018 16:40

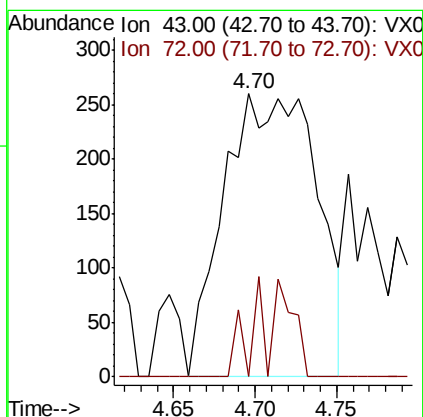
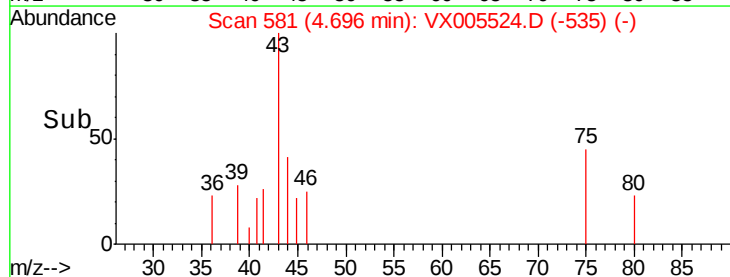
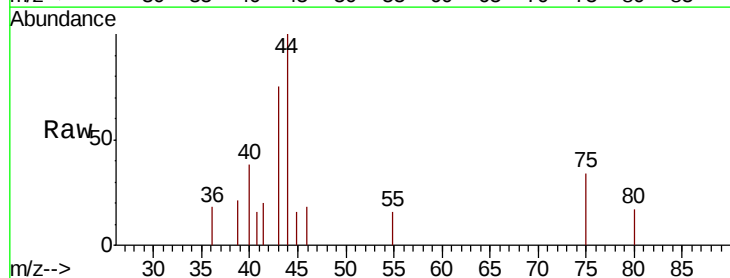
Instrument :
MSVOA_X
ClientSampled :

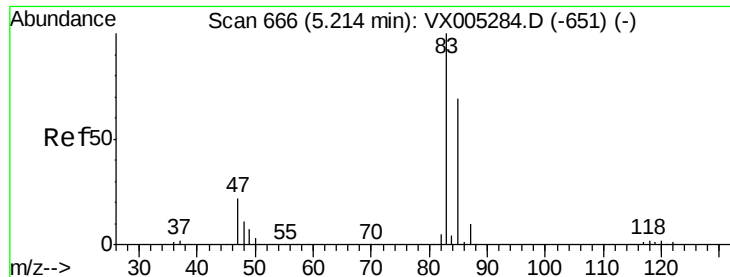
Tot Ion: 84 Resp: 524
Ion Ratio Lower Upper
84 100
49 96.3 101.2 151.8#
51 25.0 29.5 44.3#
86 59.1 52.3 78.5



#25
2-Butanone
Concen: 0.458 ug/l
RT: 4.70 min Scan# 581
Delta R.T. -0.02 min
Lab File: VX005524.D
Acq: 23 Oct 2018 16:40

Tgt Ion: 43 Resp: 1031
Ion Ratio Lower Upper
43 100
72 0.0 22.0 33.0#





#30

Chloroform

Concen: 0.381 ug/l

RT: 5.21 min Scan# 666

Delta R.T. 0.00 min

Lab File: VX005524.D

Acq: 23 Oct 2018 16:40

Instrument :

MSVOA_X

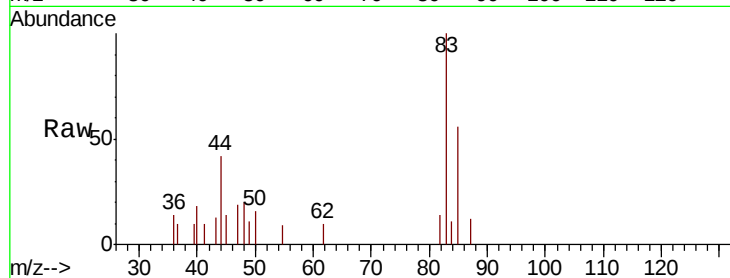
ClientSampleId :

Tot Ion: 83 Resp: 1567

Ion Ratio Lower Upper

83 100

85 55.7 52.6 79.0



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

5.21

600

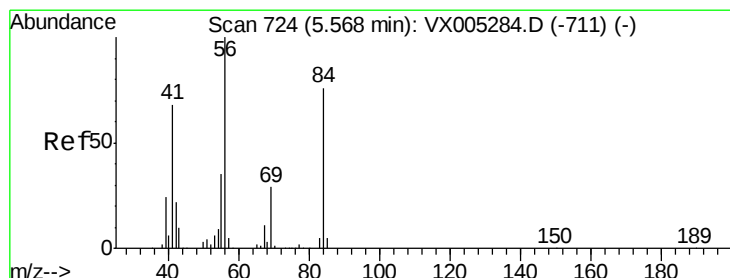
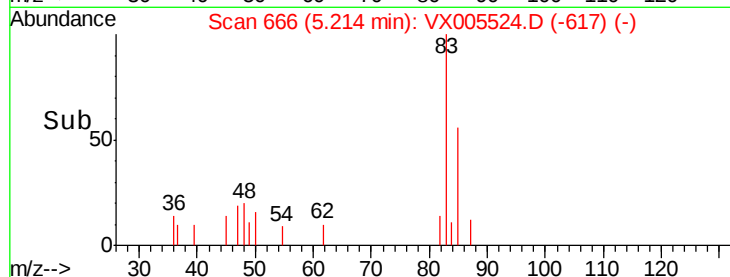
400

200

0

5.15 5.20 5.25 5.30

Time-->



#31

Cyclohexane

Concen: 1.269 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.10 min

Lab File: VX005524.D

Acq: 23 Oct 2018 16:40

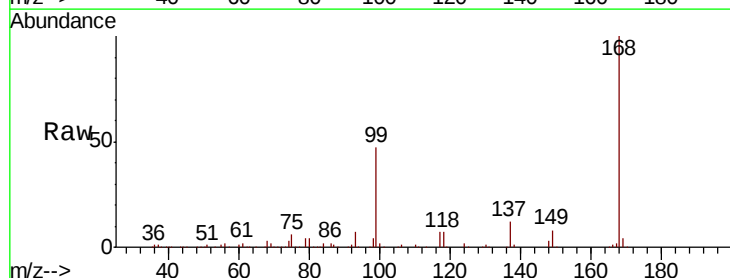
Tgt Ion: 56 Resp: 4641

Ion Ratio Lower Upper

56 100

69 129.0 25.4 38.2#

84 104.0 71.4 107.2



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

4000

3000

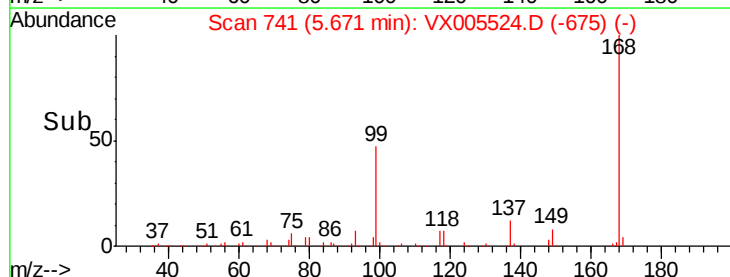
2000

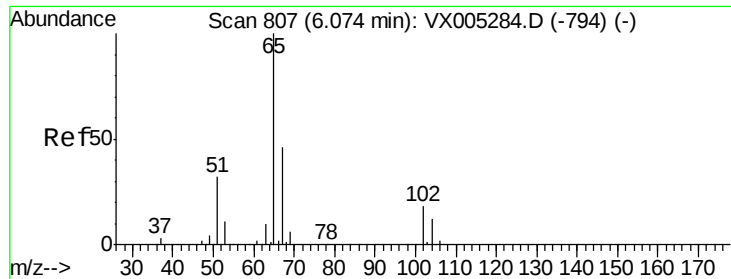
1000

0

5.55 5.60 5.65 5.70 5.75

Time-->





#33

1,2-Dichloroethane-d4

Concen: 52.812 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.01 min

Lab File: VX005524.D

Acq: 23 Oct 2018 16:40

Instrument :

MSVOA_X

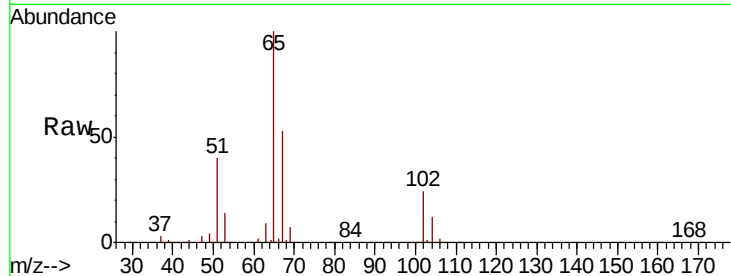
ClientSampleId :

Tot Ion: 65 Resp: 140461

Ion Ratio Lower Upper

65 100

67 52.9 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

50000

40000

30000

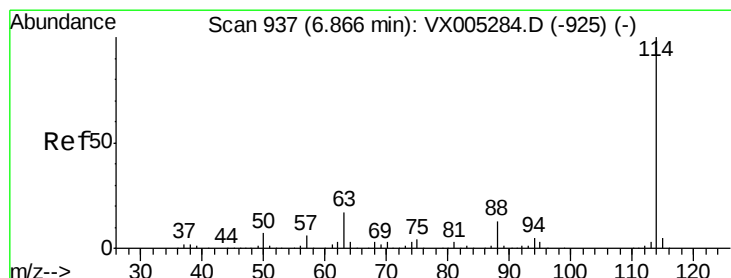
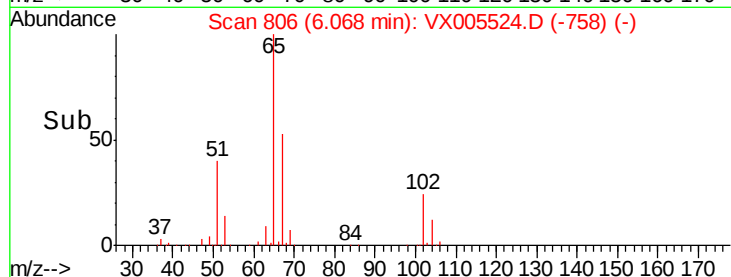
20000

10000

0

6.00 6.10 6.20

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.01 min

Lab File: VX005524.D

Acq: 23 Oct 2018 16:40

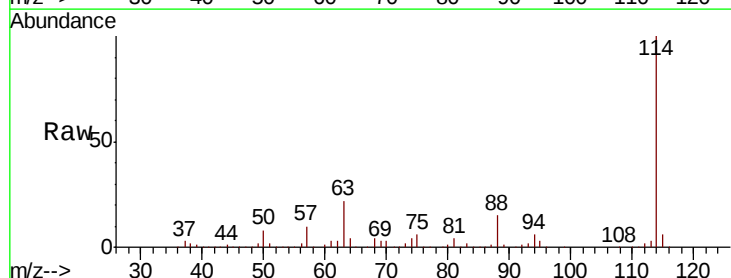
Tgt Ion: 114 Resp: 340362

Ion Ratio Lower Upper

114 100

63 22.0 0.0 39.0

88 15.0 0.0 30.4



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

200000

150000

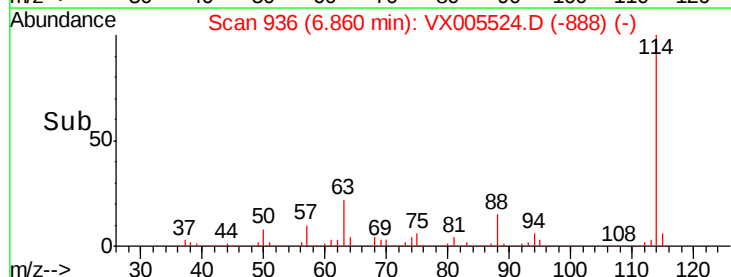
100000

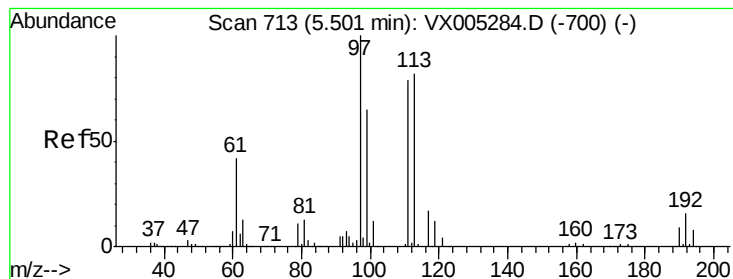
50000

0

6.70 6.80 6.90 7.00 7.10

Time-->





#35

Dibromofluoromethane

Concen: 52.323 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX005524.D

Acq: 23 Oct 2018 16:40

Instrument :

MSVOA_X

ClientSampleId :

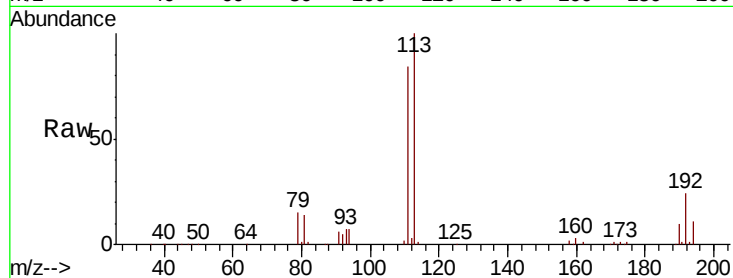
Tot Ion:113 Resp: 117951

Ion Ratio Lower Upper

113 100

111 104.7 82.4 123.6

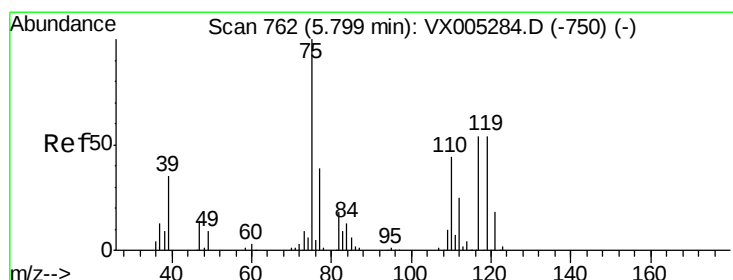
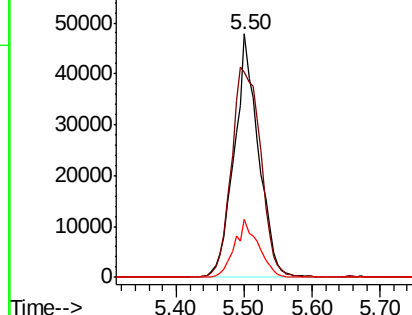
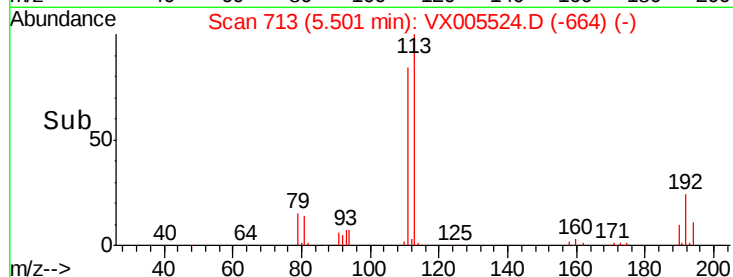
192 23.5 19.4 29.2



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: 4.995 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005524.D

Acq: 23 Oct 2018 16:40

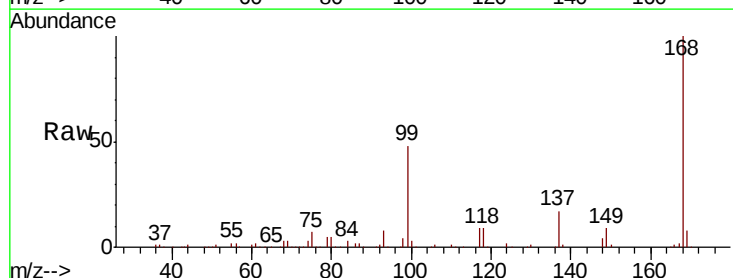
Tgt Ion: 75 Resp: 16465

Ion Ratio Lower Upper

75 100

110 9.9 18.0 54.0#

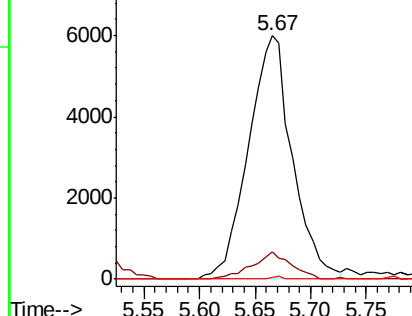
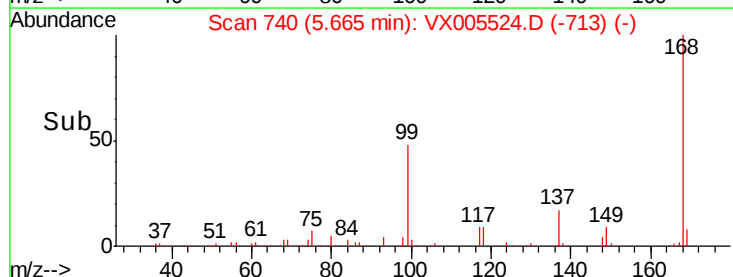
77 0.3 24.6 36.8#

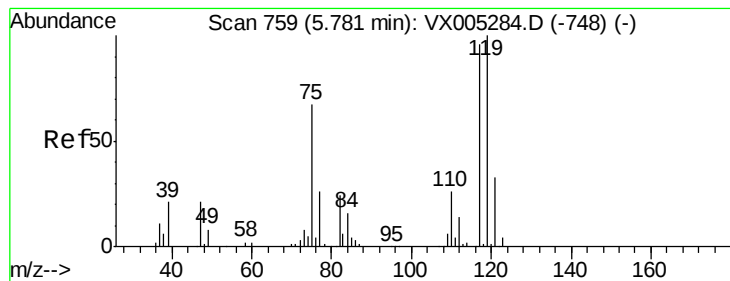


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.567 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX005524.D

Acq: 23 Oct 2018 16:40

Instrument :

MSVOA_X

ClientSampleId :

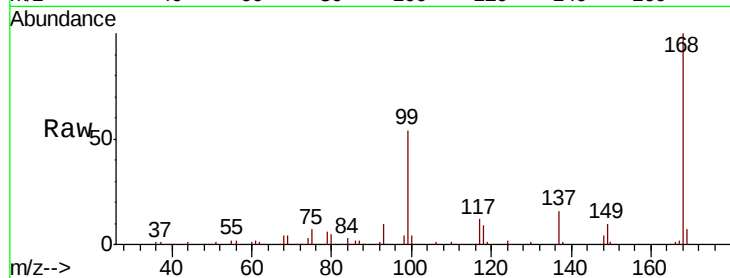
Tot Ion:117 Resp: 21750

Ion Ratio Lower Upper

117 100

119 5.0 78.8 118.2#

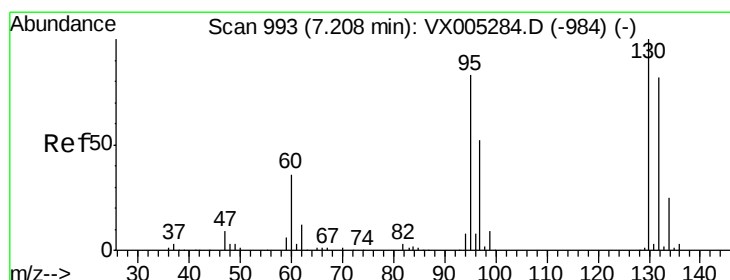
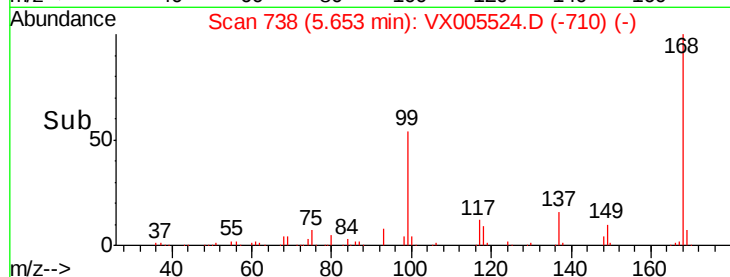
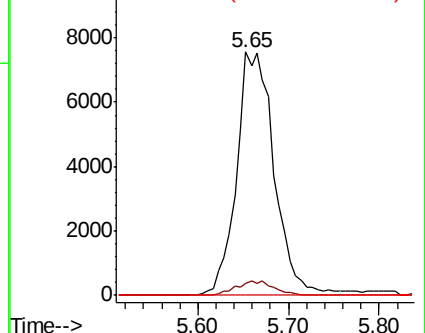
121 0.0 24.9 37.3#



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



#44

Trichloroethene

Concen: Below Cal

RT: 7.21 min Scan# 994

Delta R.T. 0.01 min

Lab File: VX005524.D

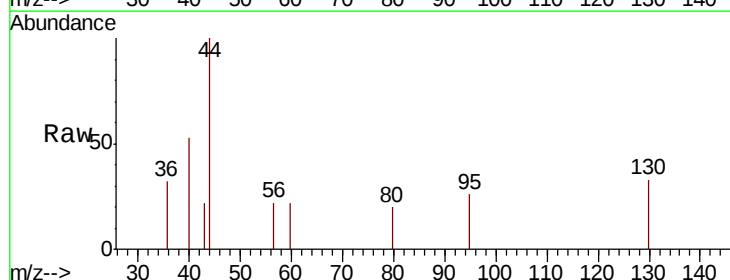
Acq: 23 Oct 2018 16:40

Tgt Ion:130 Resp: 102

Ion Ratio Lower Upper

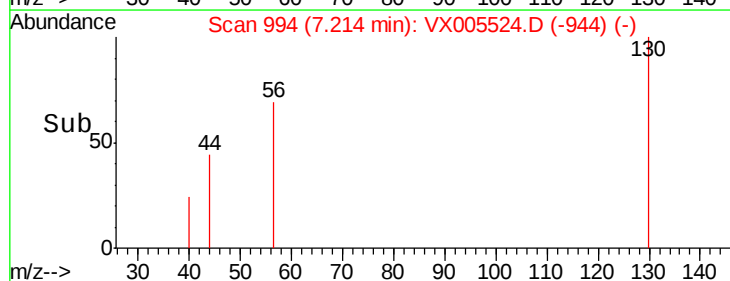
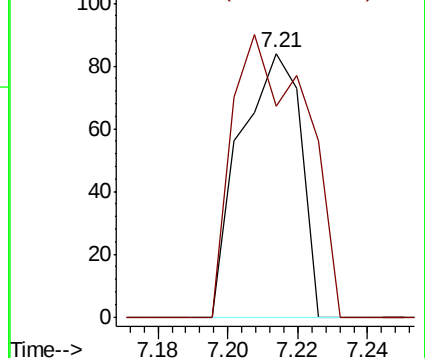
130 100

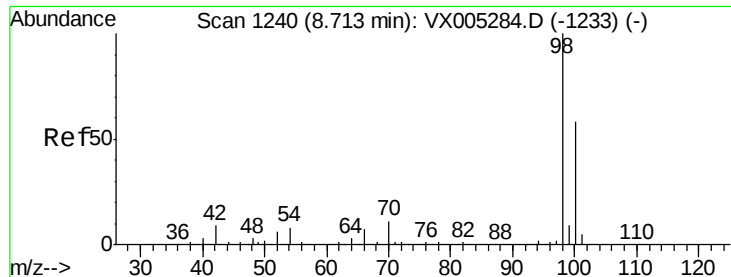
95 79.8 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 49.600 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX005524.D

Acq: 23 Oct 2018 16:40

Instrument :

MSVOA_X

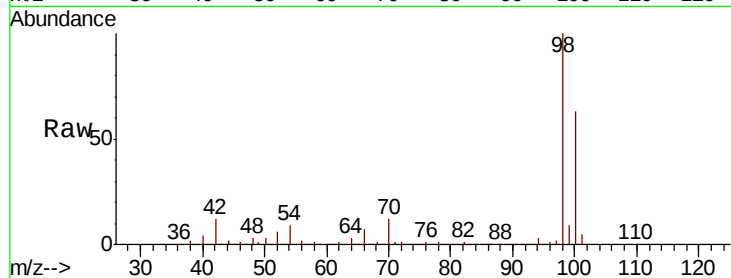
ClientSampleId :

Tot Ion: 98 Resp: 383864

Ion Ratio Lower Upper

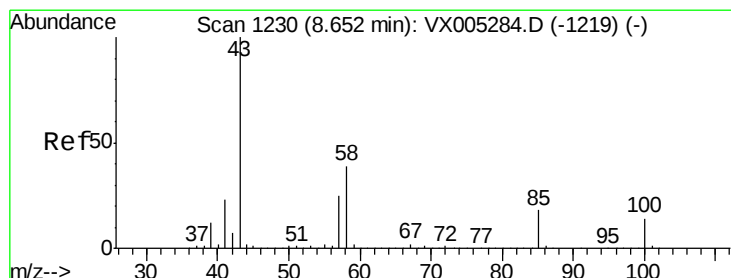
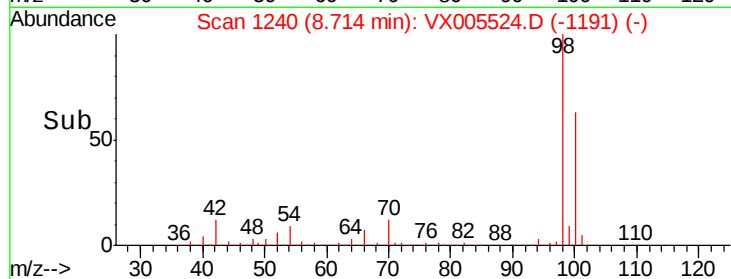
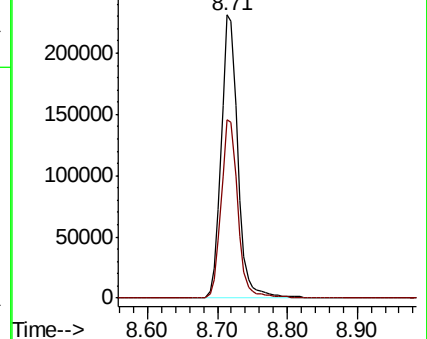
98 100

100 63.4 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.684 ug/l

RT: 8.65 min Scan# 1230

Delta R.T. 0.00 min

Lab File: VX005524.D

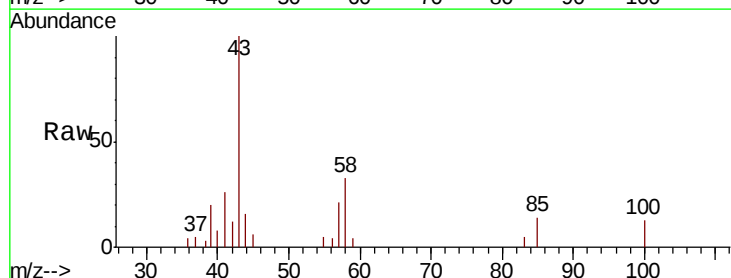
Acq: 23 Oct 2018 16:40

Tgt Ion: 43 Resp: 2675

Ion Ratio Lower Upper

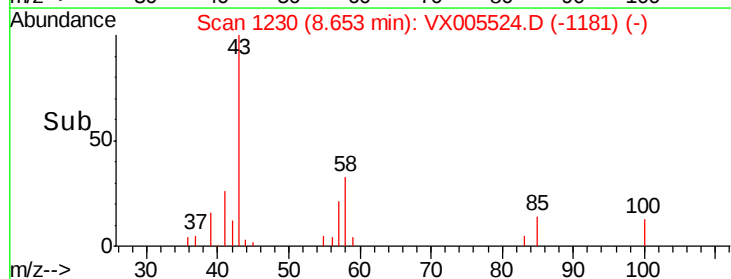
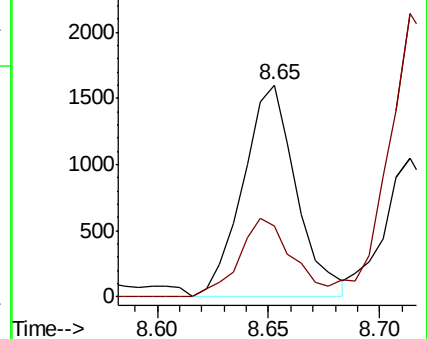
43 100

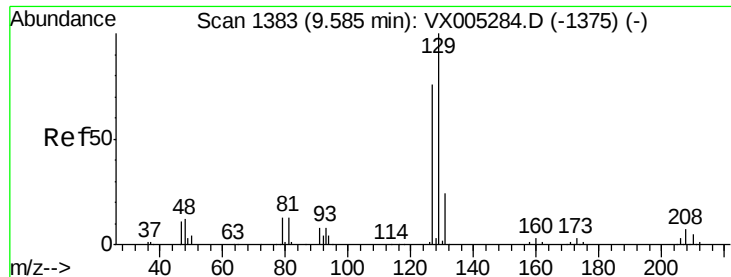
58 36.9 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#60

Dibromochloromethane

Concen: 0.254 ug/l

RT: 9.59 min Scan# 1383

Delta R.T. 0.00 min

Lab File: VX005524.D

Acq: 23 Oct 2018 16:40

Instrument :

MSVOA_X

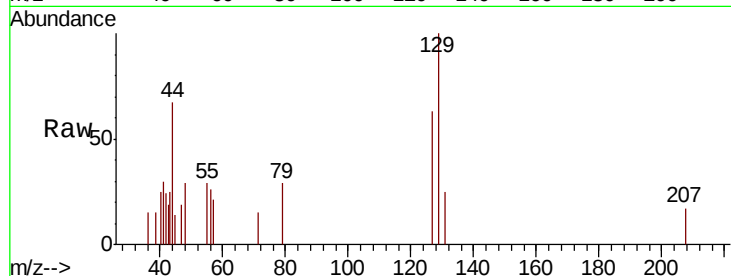
ClientSampleId :

Tot Ion:129 Resp: 601

Ion Ratio Lower Upper

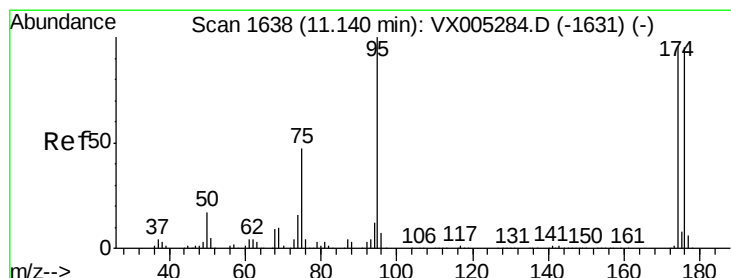
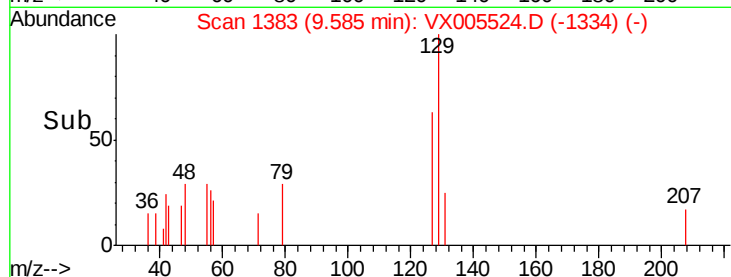
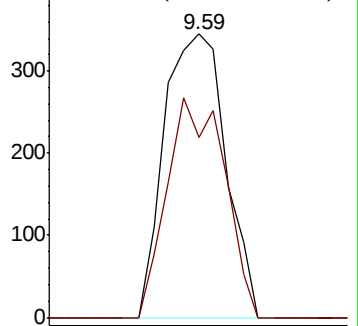
129 100

127 72.7 38.5 115.5



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 43.952 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX005524.D

Acq: 23 Oct 2018 16:40

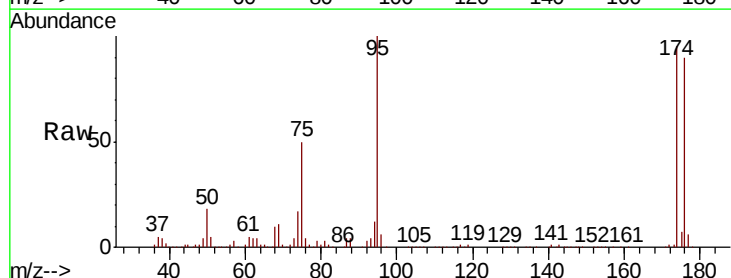
Tgt Ion: 95 Resp: 127782

Ion Ratio Lower Upper

95 100

174 93.1 0.0 185.2

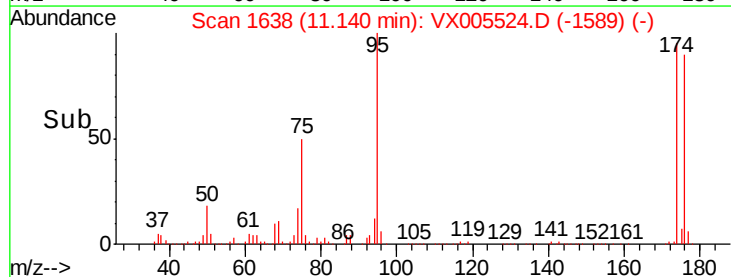
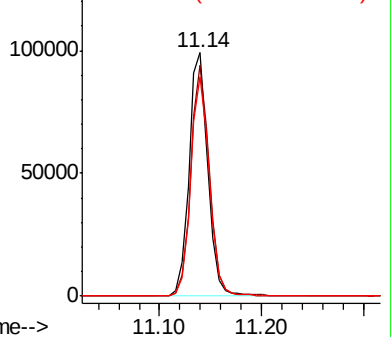
176 89.3 0.0 178.6

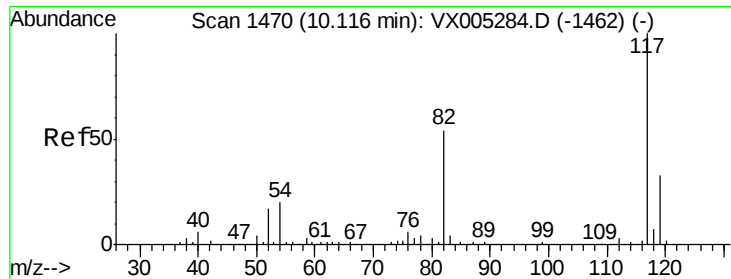


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

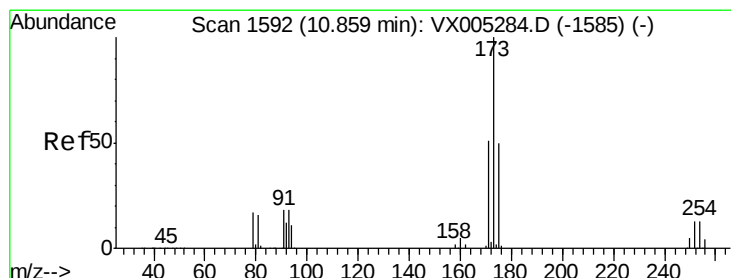
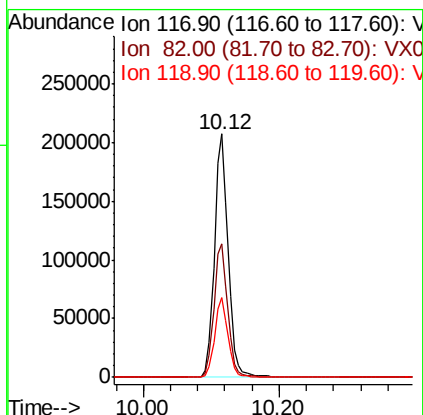
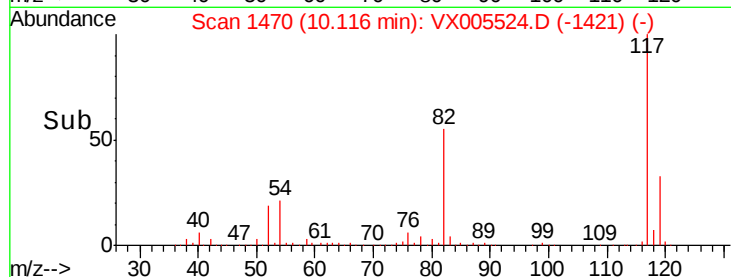
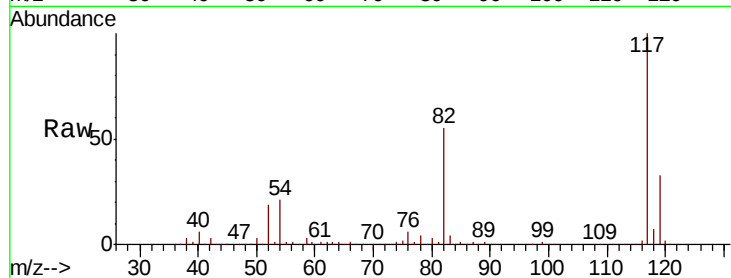




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX005524.D
Acq: 23 Oct 2018 16:40

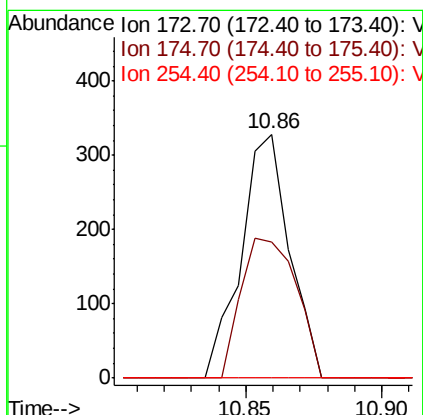
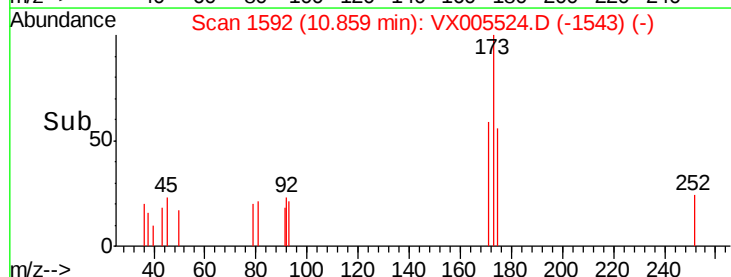
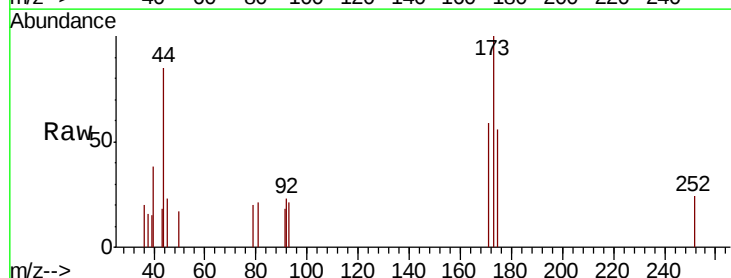
Instrument :
MSVOA_X
ClientSampled :

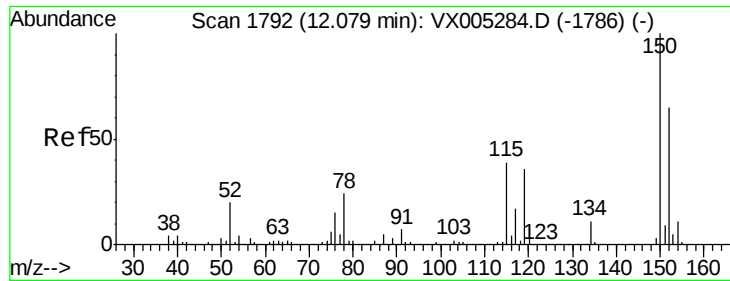
Tot Ion:117 Resp: 289034
Ion Ratio Lower Upper
117 100
82 55.0 47.8 71.6
119 32.8 29.3 43.9



#71
Bromoform
Concen: 0.207 ug/l
RT: 10.86 min Scan# 1592
Delta R.T. 0.00 min
Lab File: VX005524.D
Acq: 23 Oct 2018 16:40

Tgt Ion:173 Resp: 405
Ion Ratio Lower Upper
173 100
175 65.7 24.1 72.3
254 0.0 0.2 0.2#



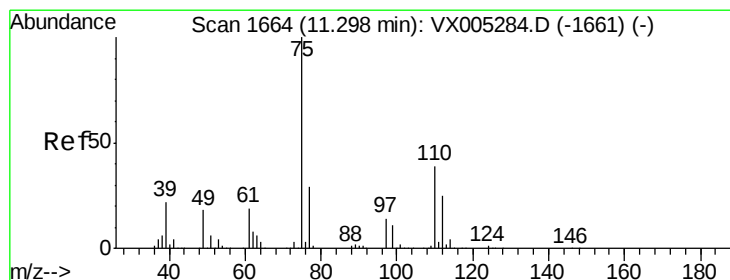
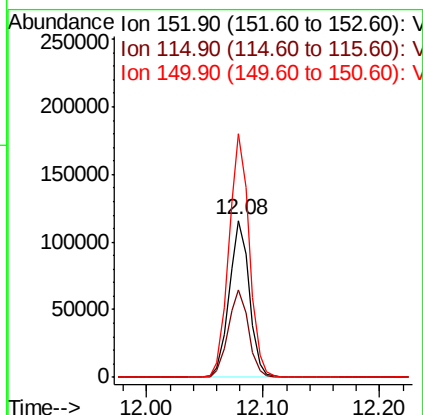
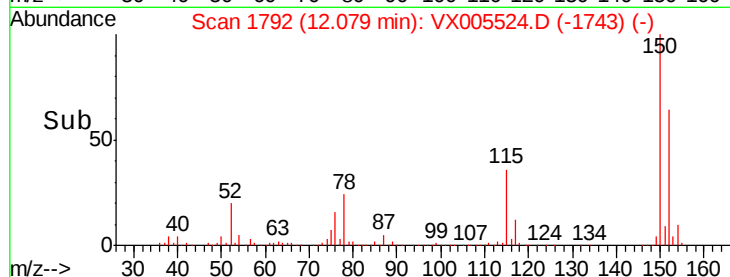
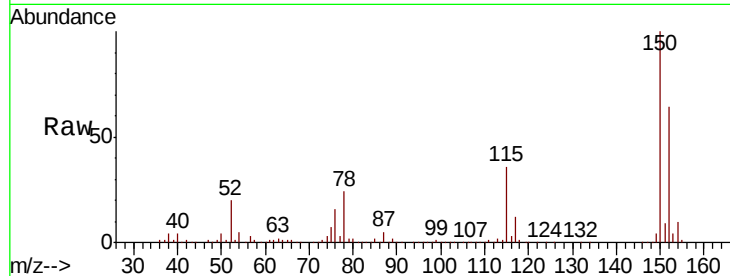


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX005524.D
Acq: 23 Oct 2018 16:40

Instrument :
MSVOA_X
ClientSampleId :

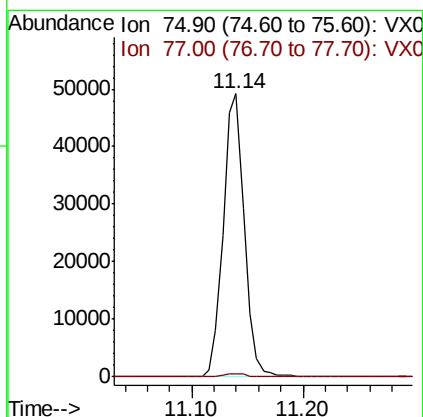
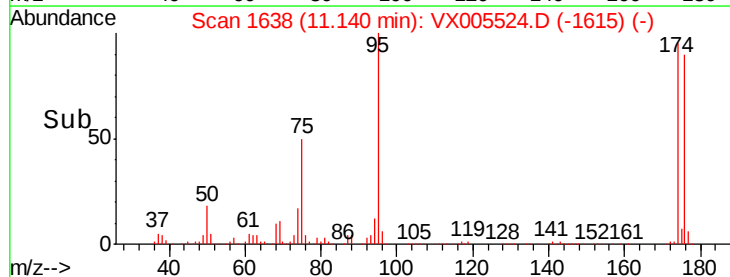
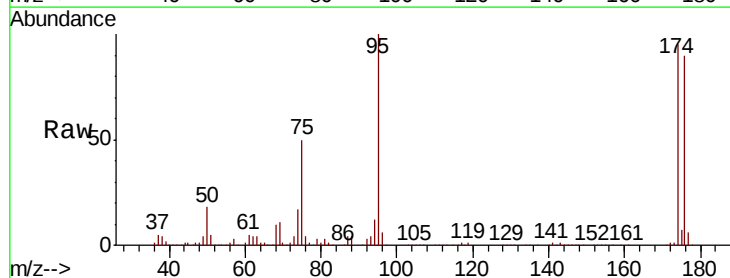
Tot Ion:152 Resp: 139043
Ion Ratio Lower Upper
152 100
115 56.1 39.0 117.0
150 156.8 0.0 351.0

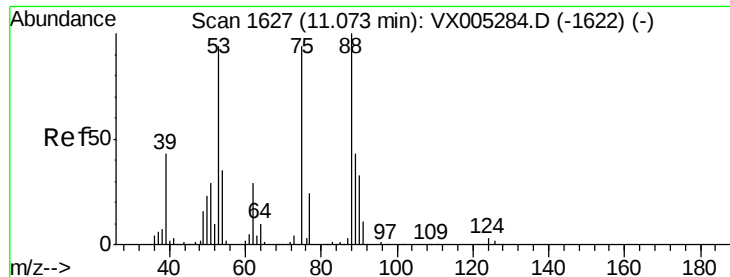


#76

1,2,3-Trichloropropane
Concen: 23.854 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.16 min
Lab File: VX005524.D
Acq: 23 Oct 2018 16:40

Tgt Ion: 75 Resp: 64335
Ion Ratio Lower Upper
75 100
77 1.3 20.2 60.6#





#81

trans-1,4-Dichloro-2-butene

Concen: 72.480 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005524.D

Acq: 23 Oct 2018 16:40

Instrument :

MSVOA_X

ClientSampleId :

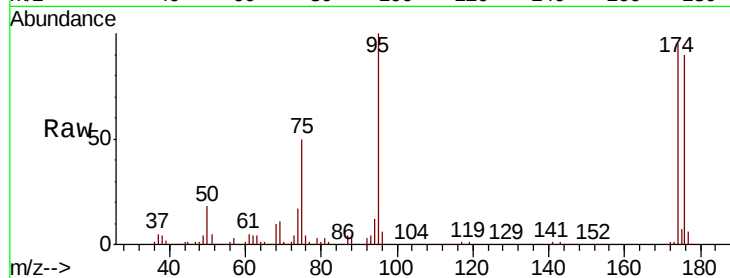
Tot Ion: 75 Resp: 64335

Ion Ratio Lower Upper

75 100

53 0.3 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

