

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090518\
 Data File : VX004371.D
 Acq On : 05 Sep 2018 15:31
 Operator : JC/MD
 Sample : J4794-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 06 00:50:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 05:39:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	321447	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	504575	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	488298	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	290425	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	211115	50.39	ug/l	0.00
Spiked Amount			Recovery	=	100.78%	
35) Dibromofluoromethane	5.50	113	181335	48.31	ug/l	0.00
Spiked Amount			Recovery	=	96.62%	
50) Toluene-d8	8.71	98	708156	49.98	ug/l	0.00
Spiked Amount			Recovery	=	99.96%	
62) 4-Bromofluorobenzene	11.14	95	269207	50.92	ug/l	0.00
Spiked Amount			Recovery	=	101.84%	

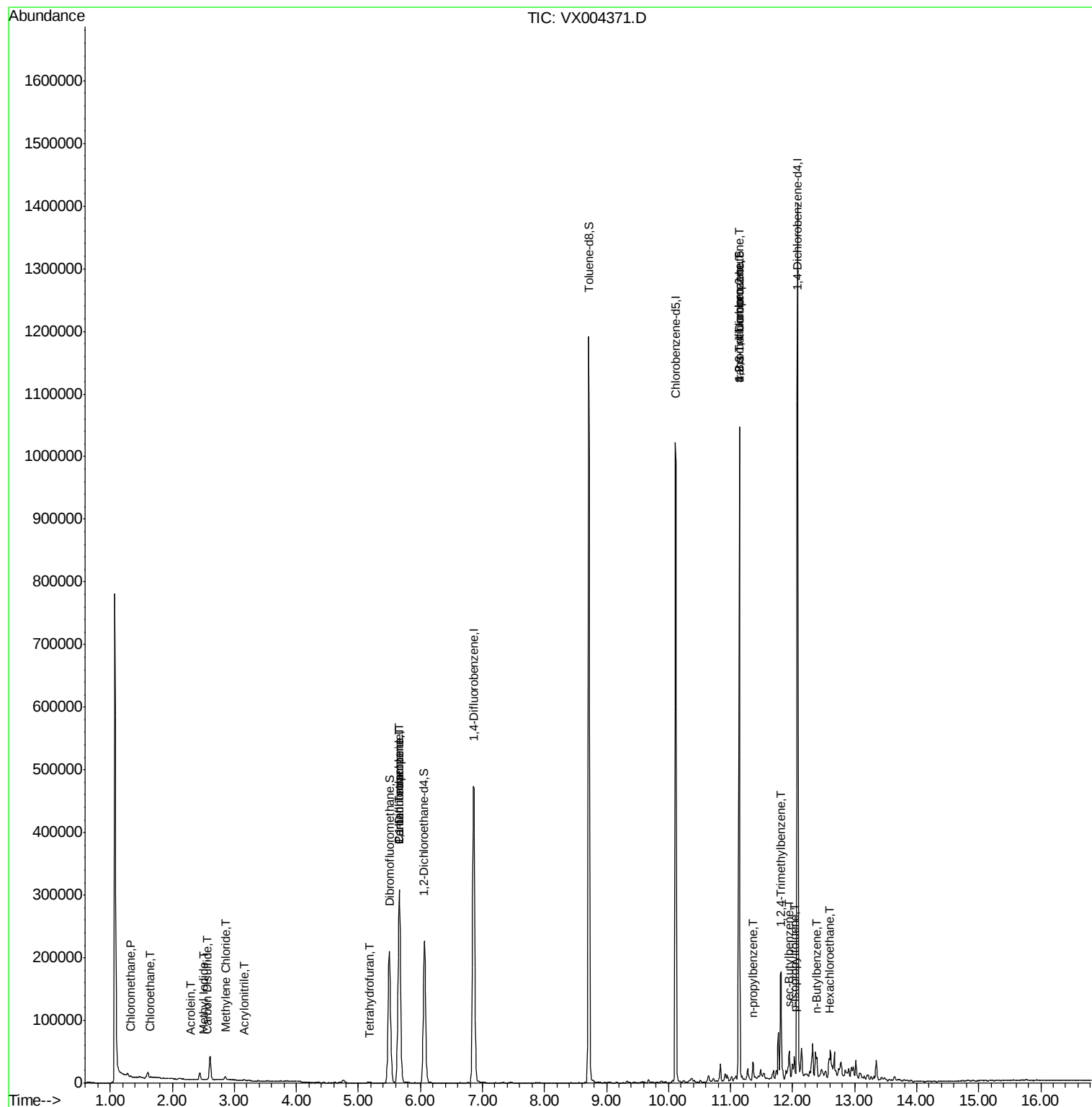
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	914	0.51	ug/l	# 86
5) Bromomethane	1.65	94	1266	Below Cal		100
6) Chloroethane	1.64	64	3433	1.98	ug/l	# 54
10) Methyl Iodide	2.51	142	1236	4.54	ug/l	# 93
13) Acrolein	2.29	56	142	0.66	ug/l	# 78
15) Acrylonitrile	3.15	53	496	0.22	ug/l	# 63
16) Acetone	2.44	43	12027	Below Cal		94
17) Carbon Disulfide	2.57	76	1191	0.92	ug/l	# 83
20) Methylene Chloride	2.86	84	2208	0.55	ug/l	95
25) 2-Butanone	4.71	43	523	Below Cal		47
29) Tetrahydrofuran	5.17	42	780	0.43	ug/l	# 55
36) 1,1-Dichloropropene	5.65	75	21284	3.75	ug/l	# 50
38) Carbon Tetrachloride	5.66	117	27278	5.11	ug/l	# 16
76) 1,2,3-Trichloropropane	11.13	75	126095	21.35	ug/l	# 37
78) n-propylbenzene	11.36	91	16008	0.73	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.13	75	126095	69.26	ug/l	# 10
84) 1,2,4-Trimethylbenzene	11.81	105	74697	4.61	ug/l	99
85) sec-Butylbenzene	11.95	105	11023	0.58	ug/l	98
86) p-Isopropyltoluene	12.02	119	11885	0.70	ug/l	98
89) n-Butylbenzene	12.39	91	11870	0.86	ug/l	# 82
90) Hexachloroethane	12.59	117	1281	0.54	ug/l	# 3
94) Hexachlorobutadiene	13.79	225	203	Below Cal		93

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 832

Delta R.T. 0.00 min

Lab File: VX004371.D

Acq: 05 Sep 2018 15:31

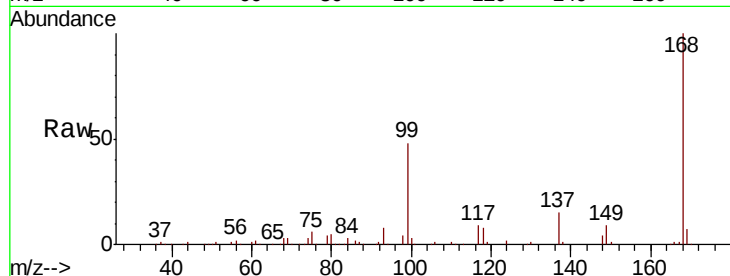
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 321447

Ion Ratio Lower Upper

168 100

99 47.7 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

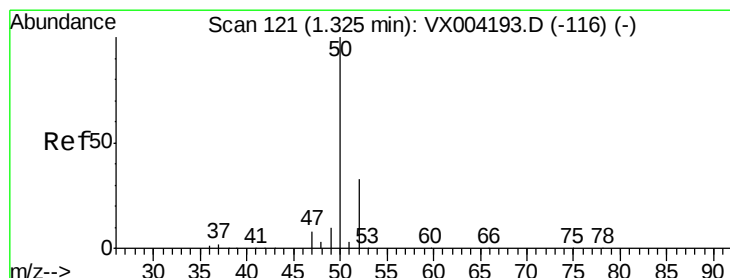
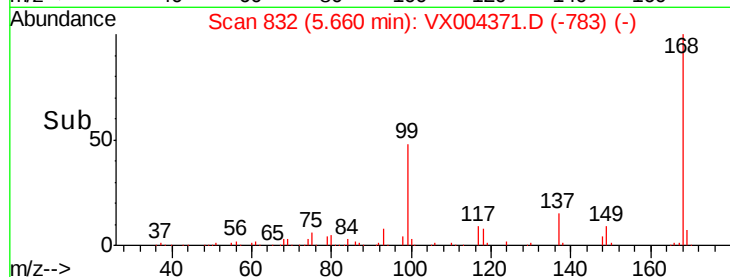
5.66

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.51 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX004371.D

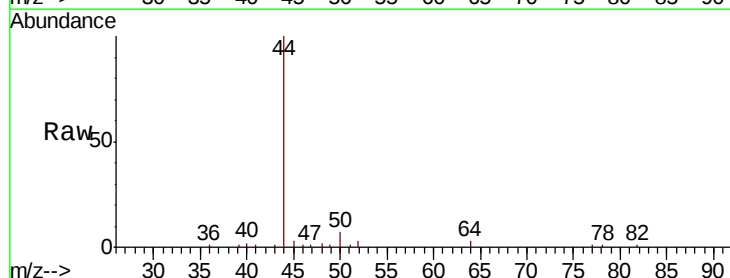
Acq: 05 Sep 2018 15:31

Tgt Ion: 50 Resp: 914

Ion Ratio Lower Upper

50 100

52 40.5 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

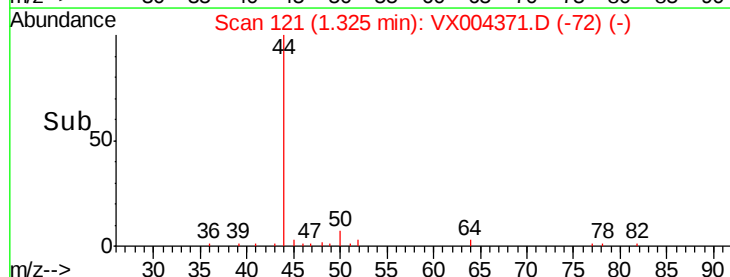
600

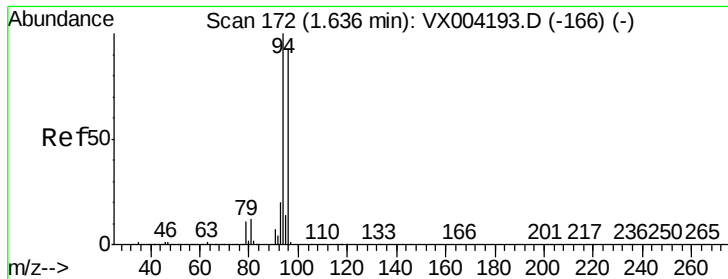
400

200

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX004371.D

Acq: 05 Sep 2018 15:31

Instrument :

MSVOA_X

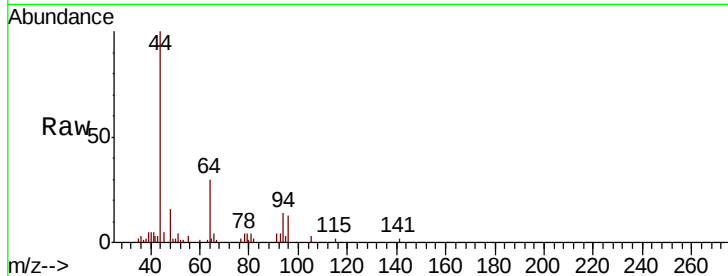
ClientSampled :

Tot Ion: 94 Resp: 1266

Ion Ratio Lower Upper

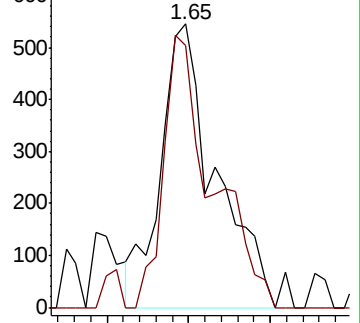
94 100

96 92.7 74.5 111.7

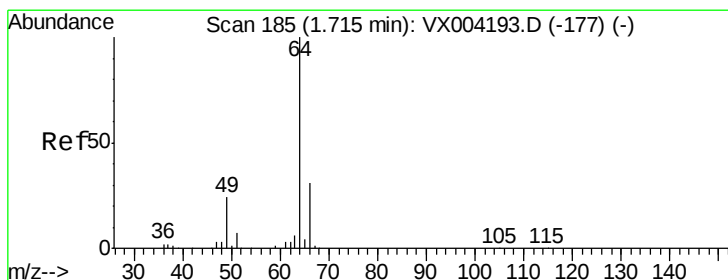
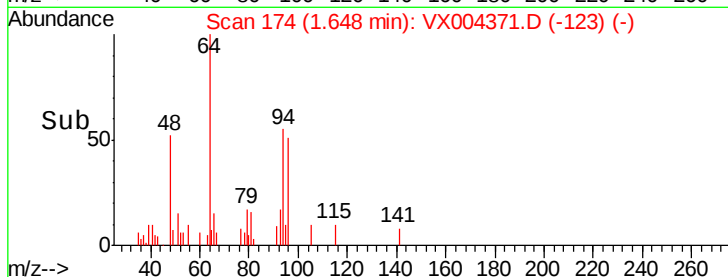


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: 1.98 ug/l

RT: 1.64 min Scan# 173

Delta R.T. -0.07 min

Lab File: VX004371.D

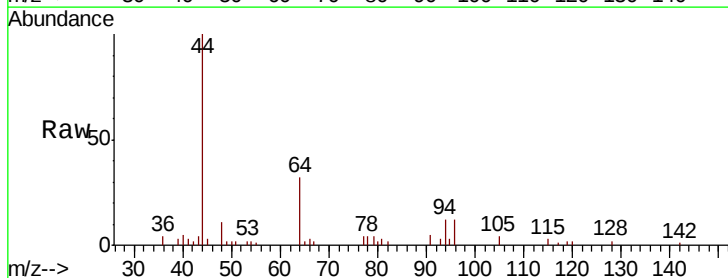
Acq: 05 Sep 2018 15:31

Tgt Ion: 64 Resp: 3433

Ion Ratio Lower Upper

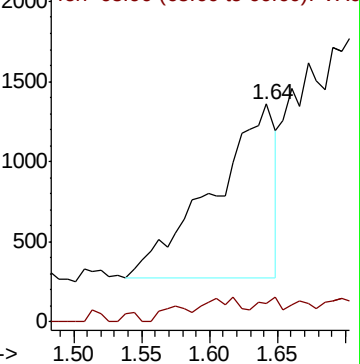
64 100

66 5.6 24.6 36.8#

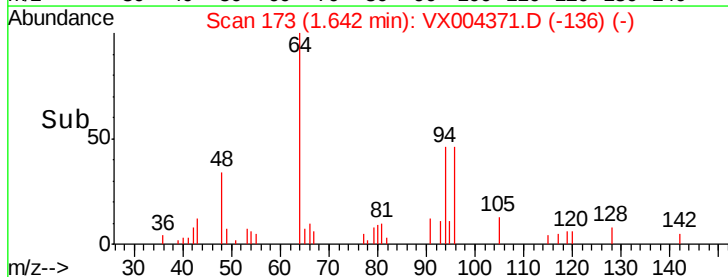


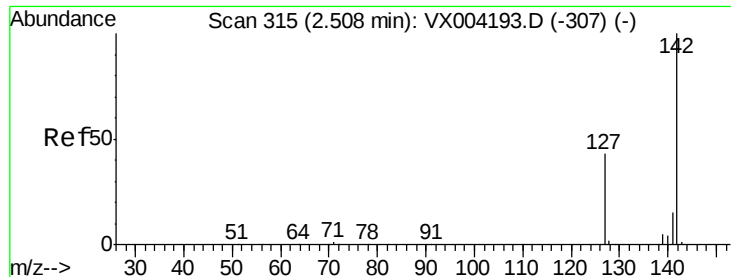
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->

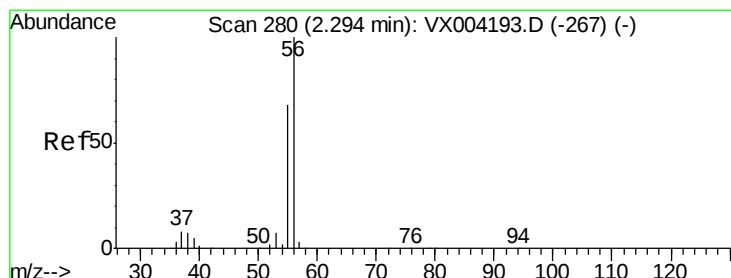
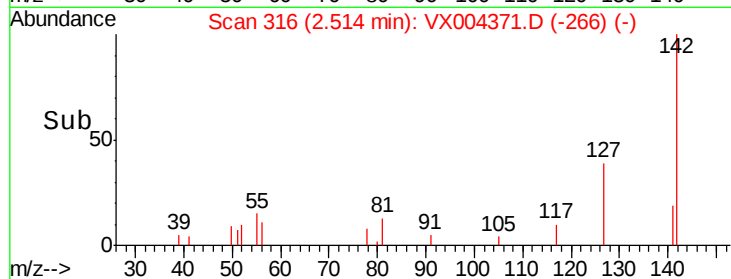
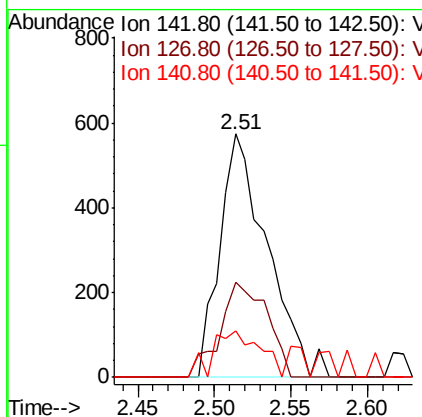
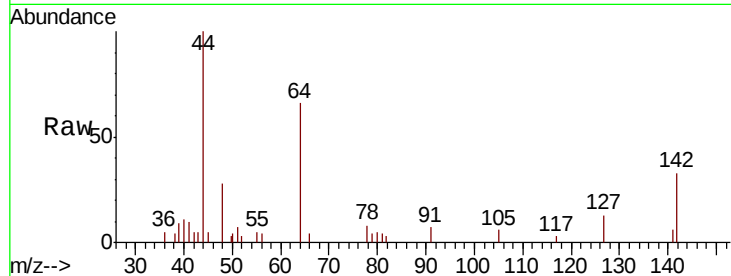




#10
Methvl Iodide
Concen: 4.54 ug/l
RT: 2.51 min Scan# 316
Delta R.T. 0.01 min
Lab File: VX004371.D
Acq: 05 Sep 2018 15:31

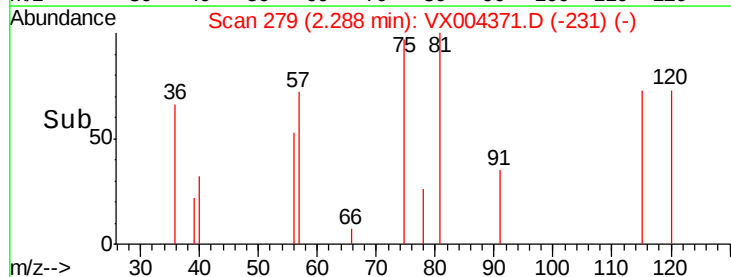
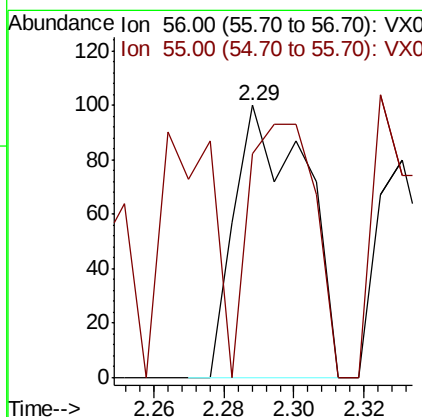
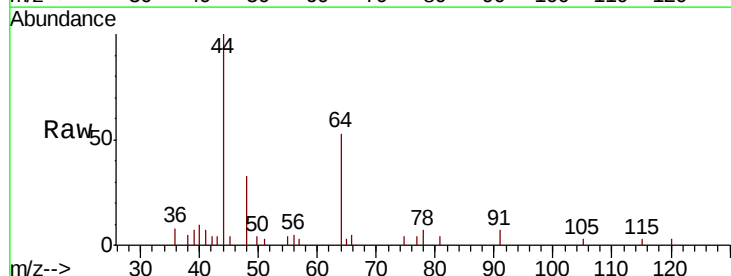
Instrument :
MSVOA_X
ClientSampleId :

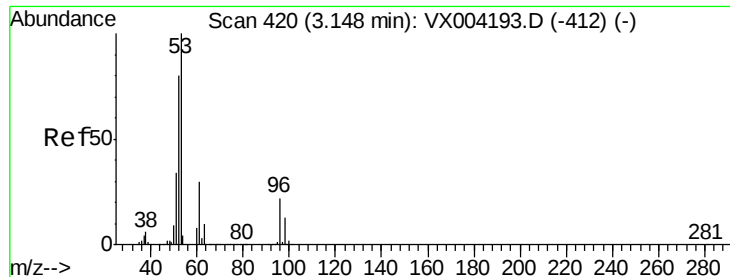
Tot Ion:142 Resp: 1236
Ion Ratio Lower Upper
142 100
127 38.8 33.8 50.6
141 19.1 11.4 17.0#



#13
Acrolein
Concen: 0.66 ug/l
RT: 2.29 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX004371.D
Acq: 05 Sep 2018 15:31

Tgt Ion: 56 Resp: 142
Ion Ratio Lower Upper
56 100
55 86.6 54.7 82.1#

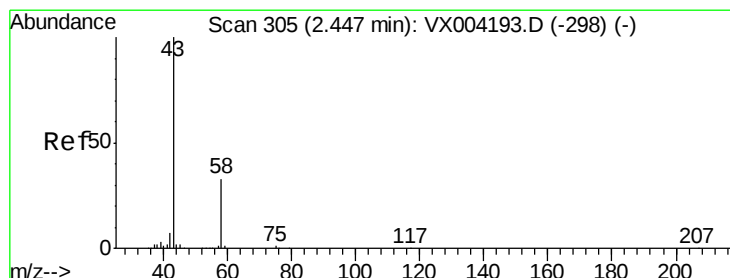
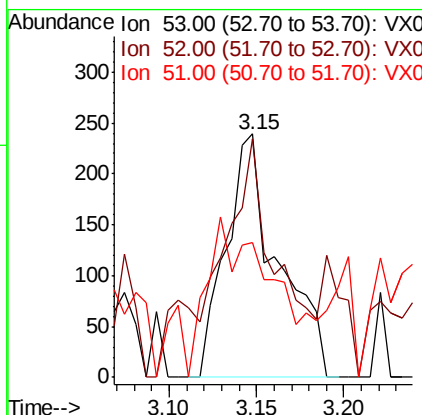
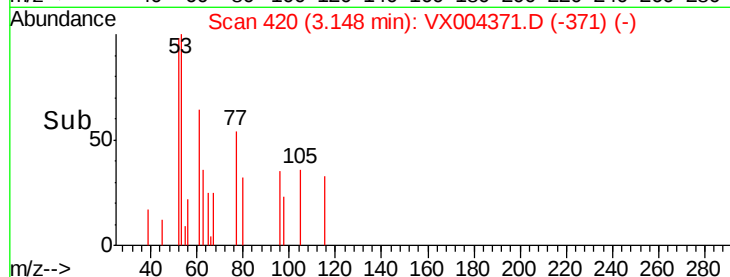
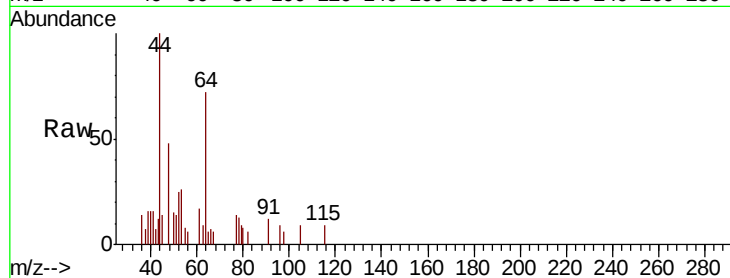




#15
 Acrylonitrile
 Concen: 0.22 ug/l
 RT: 3.15 min Scan# 420
 Delta R.T. 0.00 min
 Lab File: VX004371.D
 Acq: 05 Sep 2018 15:31

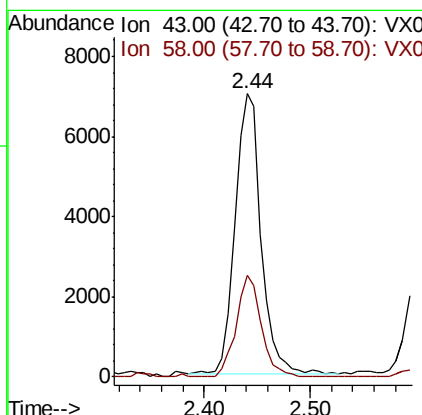
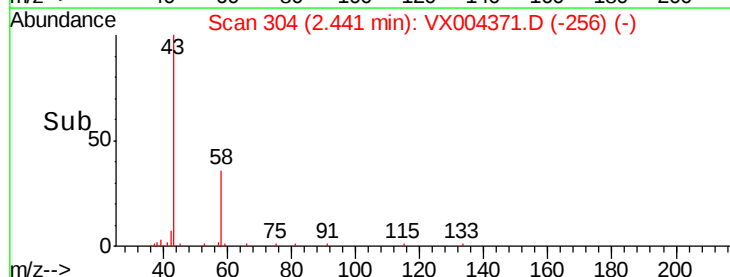
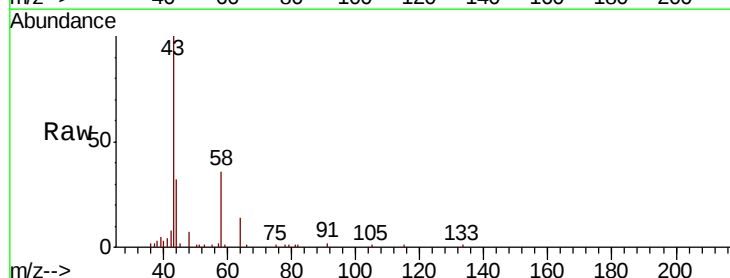
Instrument :
 MSVOA_X
 ClientSampleID :

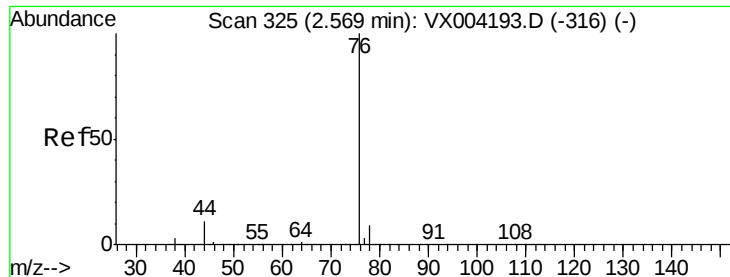
Tot Ion: 53 Resp: 496
 Ion Ratio Lower Upper
 53 100
 52 96.2 65.2 97.8
 51 85.3 28.2 42.2#



#16
 Acetone
 Concen: Below Cal
 RT: 2.44 min Scan# 304
 Delta R.T. -0.01 min
 Lab File: VX004371.D
 Acq: 05 Sep 2018 15:31

Tgt Ion: 43 Resp: 12027
 Ion Ratio Lower Upper
 43 100
 58 36.2 26.2 39.4





#17

Carbon Disulfide

Concen: 0.92 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX004371.D

Acq: 05 Sep 2018 15:31

Instrument :

MSVOA_X

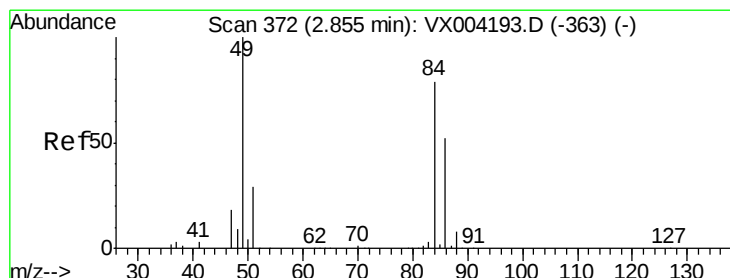
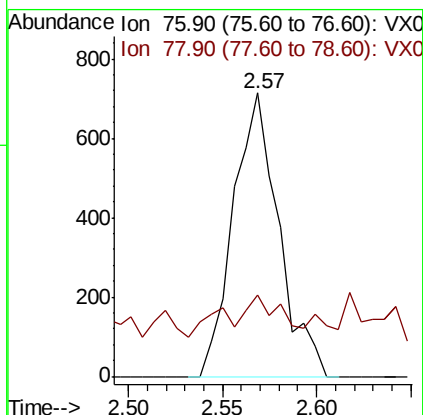
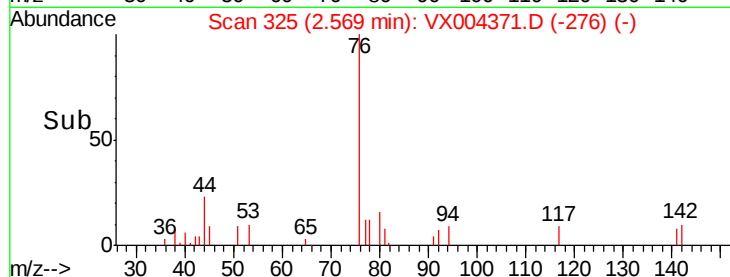
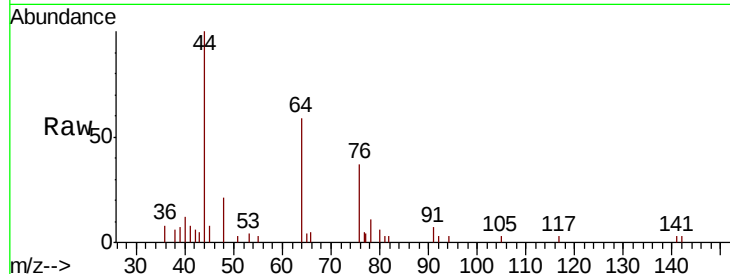
ClientSampleId :

Tot Ion: 76 Resp: 1191

Ion Ratio Lower Upper

76 100

78 15.0 7.0 10.6#



#20

Methylene Chloride

Concen: 0.55 ug/l

RT: 2.86 min Scan# 372

Delta R.T. 0.00 min

Lab File: VX004371.D

Acq: 05 Sep 2018 15:31

Tgt Ion: 84 Resp: 2208

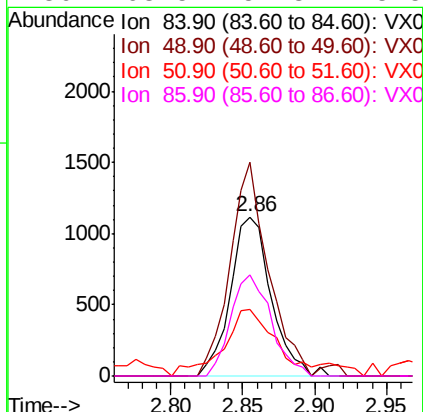
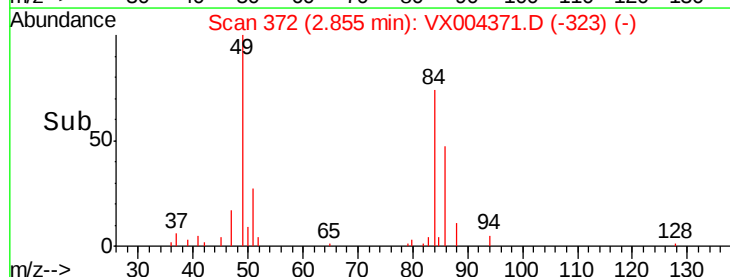
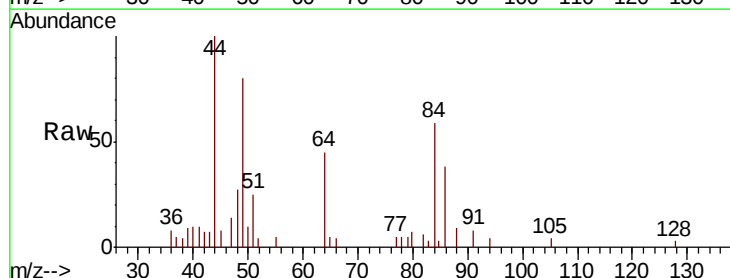
Ion Ratio Lower Upper

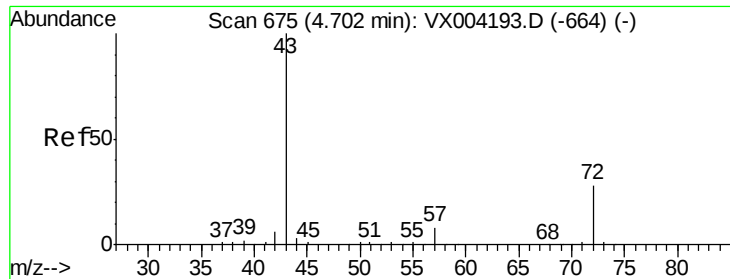
84 100

49 134.3 101.2 151.8

51 36.3 29.5 44.3

86 63.5 52.3 78.5





#25

2-Butanone

Concen: Below Cal

RT: 4.71 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX004371.D

Acq: 05 Sep 2018 15:31

Instrument :

MSVOA_X

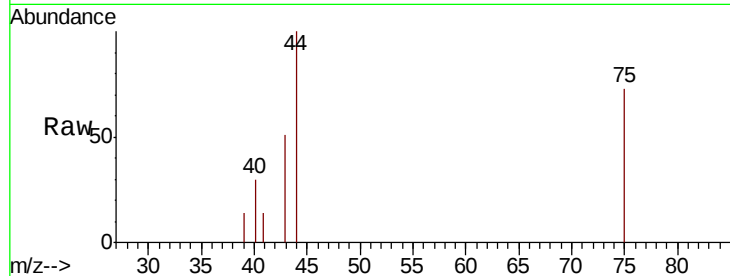
ClientSampled :

Tot Ion: 43 Resp: 523

Ion Ratio Lower Upper

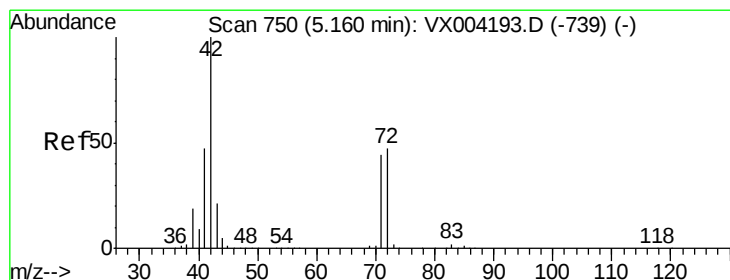
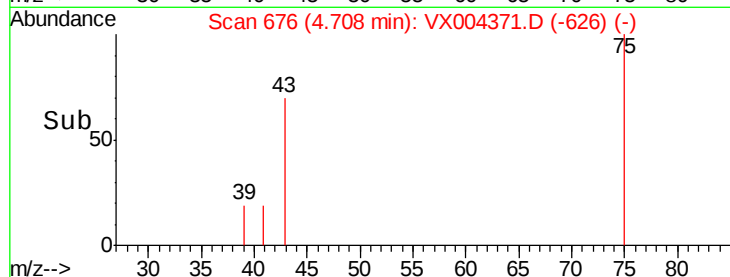
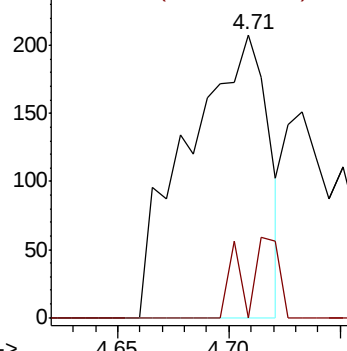
43 100

72 0.0 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.43 ug/l

RT: 5.17 min Scan# 751

Delta R.T. 0.01 min

Lab File: VX004371.D

Acq: 05 Sep 2018 15:31

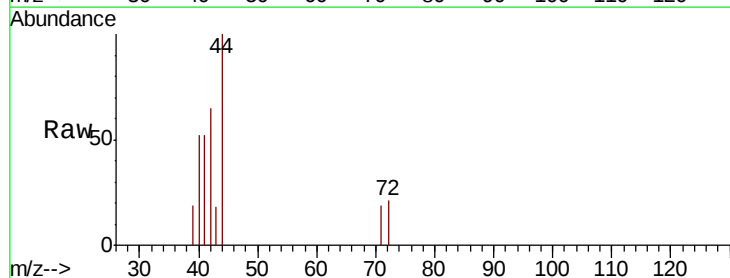
Tgt Ion: 42 Resp: 780

Ion Ratio Lower Upper

42 100

72 9.4 37.4 56.0#

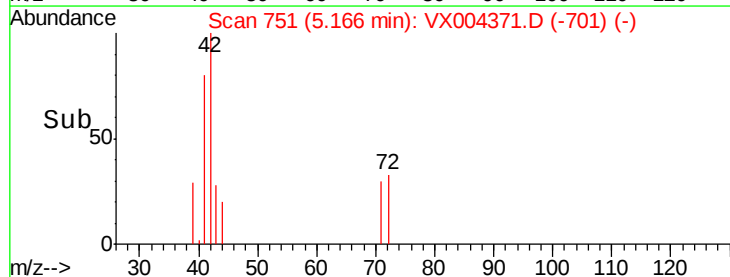
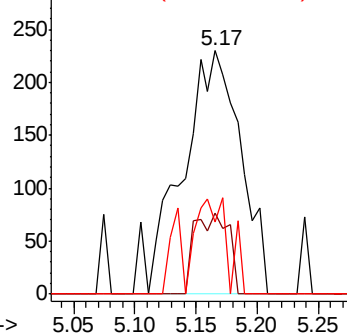
71 21.4 34.5 51.7#

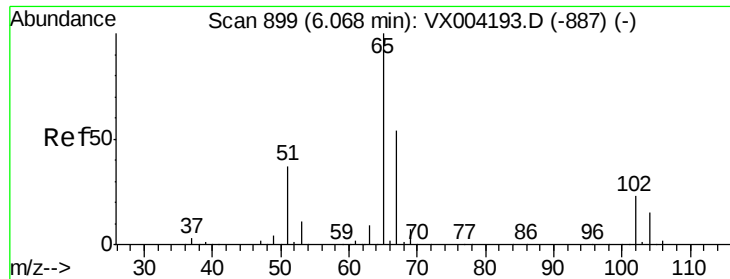


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 50.39 ug/l

RT: 6.07 min Scan# 899

Delta R.T. 0.00 min

Lab File: VX004371.D

Acq: 05 Sep 2018 15:31

Instrument :

MSVOA_X

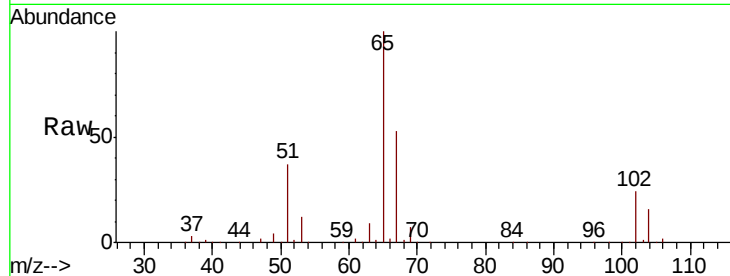
ClientSampleId :

Tot Ion: 65 Resp: 211115

Ion Ratio Lower Upper

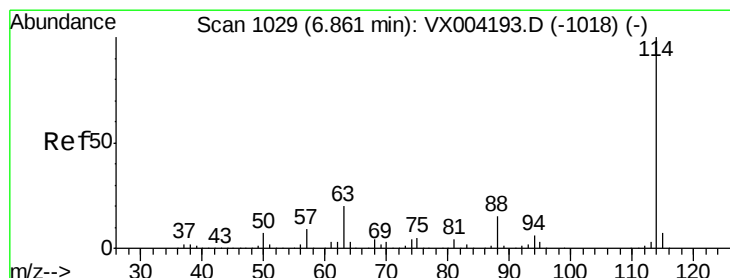
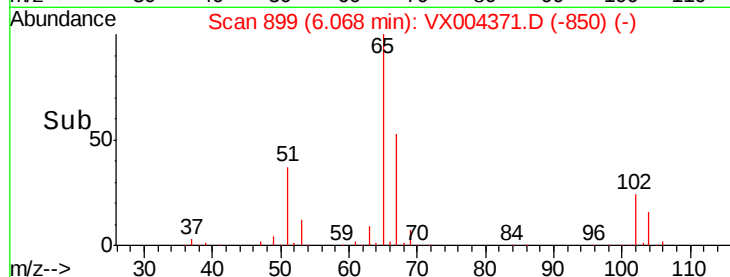
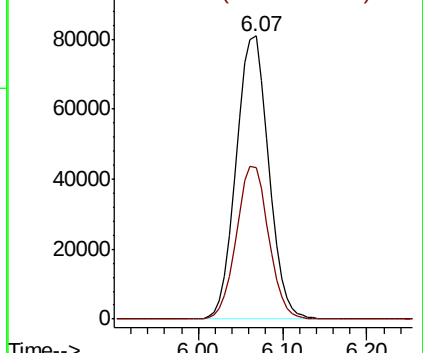
65 100

67 53.5 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.85 min Scan# 1028

Delta R.T. -0.01 min

Lab File: VX004371.D

Acq: 05 Sep 2018 15:31

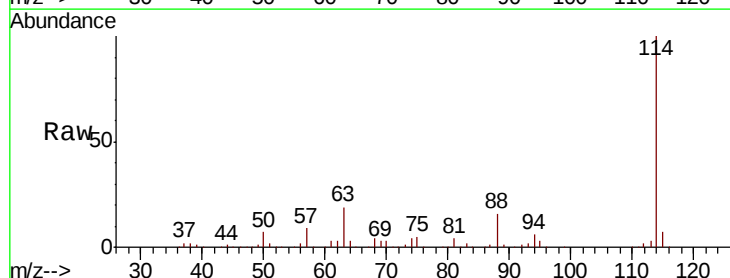
Tgt Ion: 114 Resp: 504575

Ion Ratio Lower Upper

114 100

63 19.5 0.0 39.0

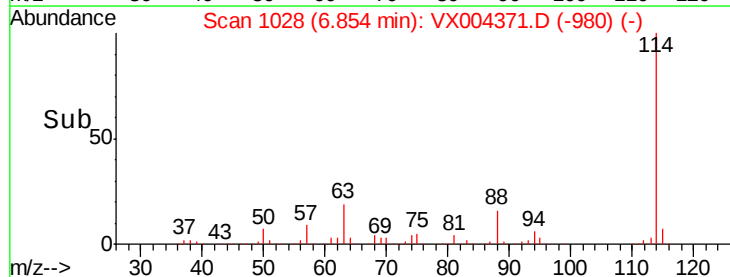
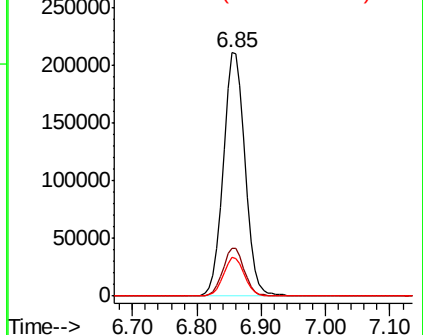
88 15.7 0.0 30.4

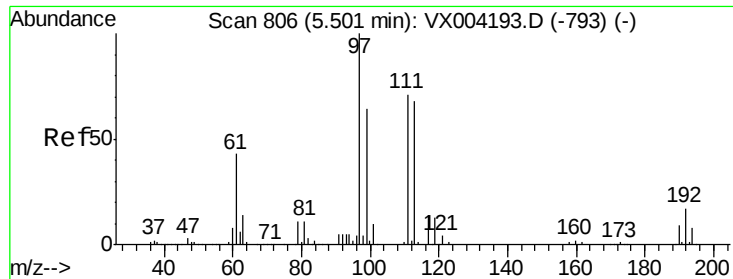


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

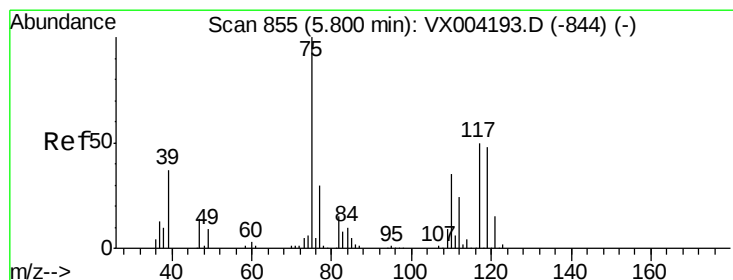
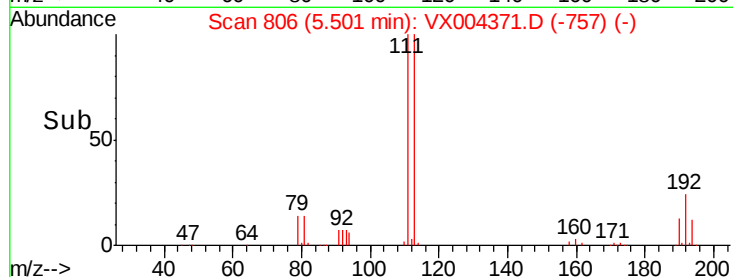
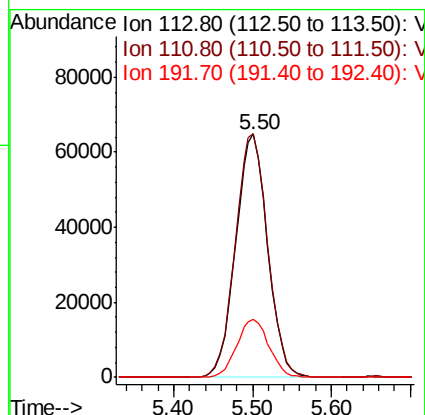
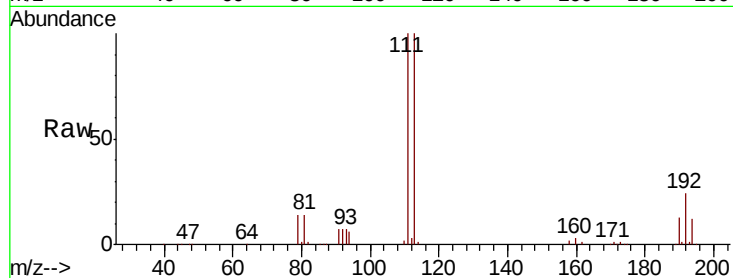




#35
 Dibromofluoromethane
 Concen: 48.31 ug/l
 RT: 5.50 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX004371.D
 Acq: 05 Sep 2018 15:31

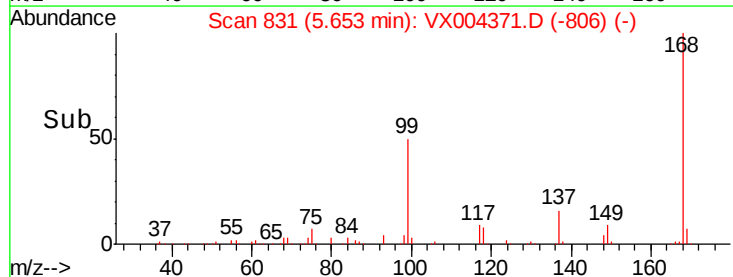
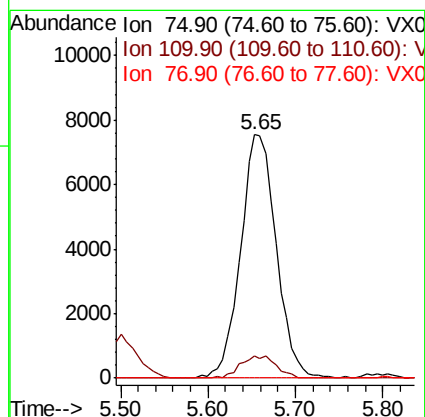
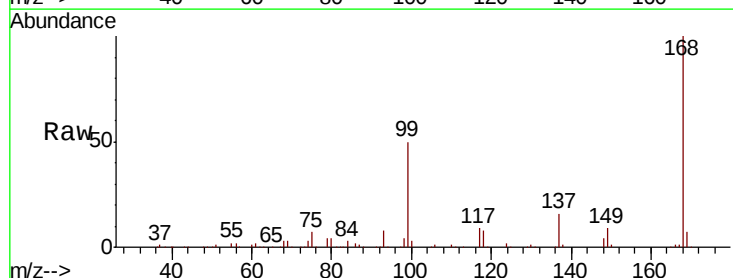
Instrument :
 MSVOA_X
 ClientSampleId :

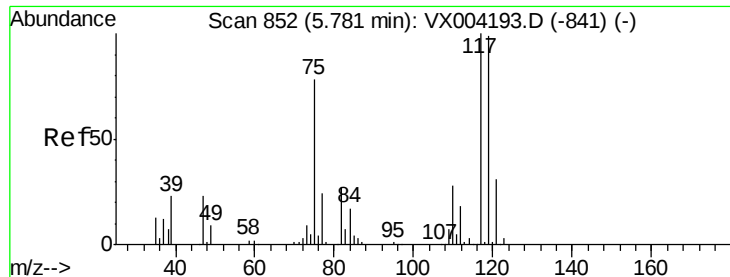
Tot Ion:113 Resp: 181335
 Ion Ratio Lower Upper
 113 100
 111 102.1 82.4 123.6
 192 24.3 19.4 29.2



#36
 1,1-Dichloropropene
 Concen: 3.75 ug/l
 RT: 5.65 min Scan# 831
 Delta R.T. -0.15 min
 Lab File: VX004371.D
 Acq: 05 Sep 2018 15:31

Tgt Ion: 75 Resp: 21284
 Ion Ratio Lower Upper
 75 100
 110 9.1 18.0 54.0#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 5.11 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.12 min

Lab File: VX004371.D

Acq: 05 Sep 2018 15:31

Instrument :

MSVOA_X

ClientSampled :

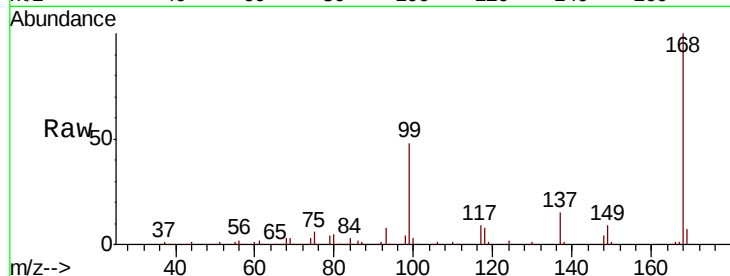
Tot Ion:117 Resp: 27278

Ion Ratio Lower Upper

117 100

119 7.1 78.8 118.2#

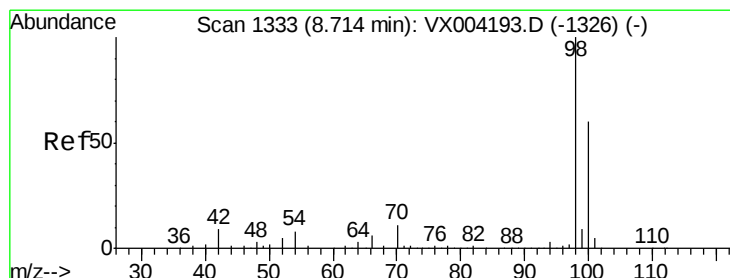
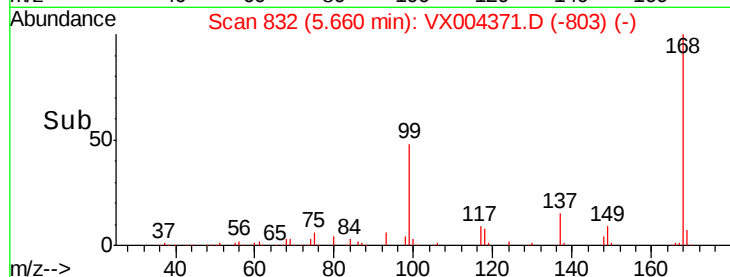
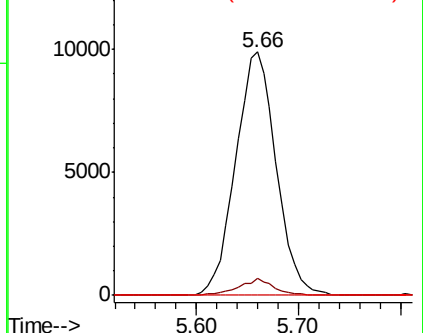
121 0.0 24.9 37.3#



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



#50

Toluene-d8

Concen: 49.98 ug/l

RT: 8.71 min Scan# 1333

Delta R.T. 0.00 min

Lab File: VX004371.D

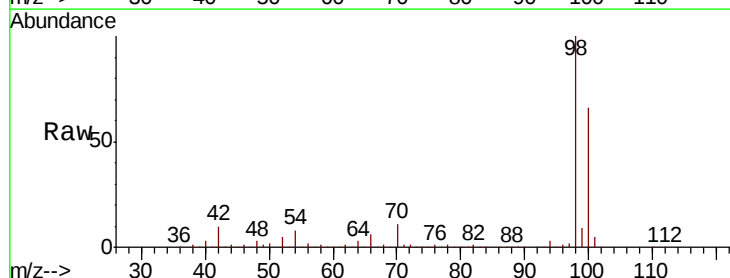
Acq: 05 Sep 2018 15:31

Tgt Ion: 98 Resp: 708156

Ion Ratio Lower Upper

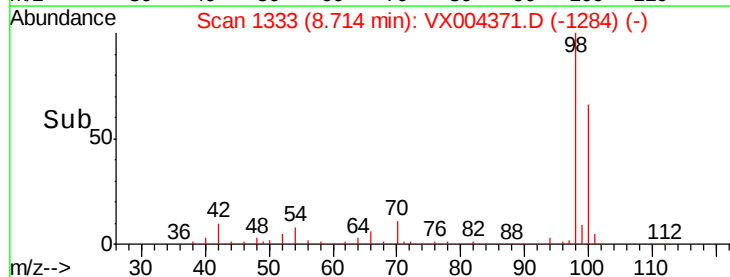
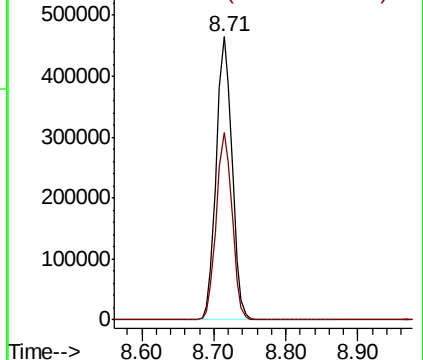
98 100

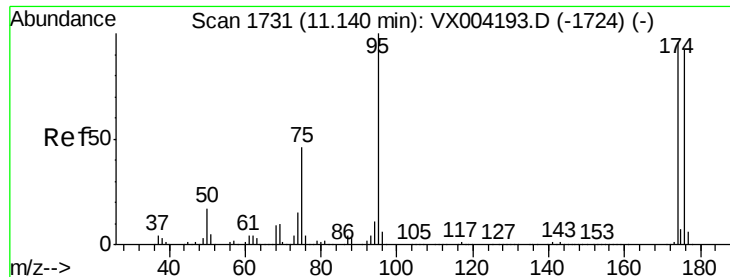
100 66.1 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

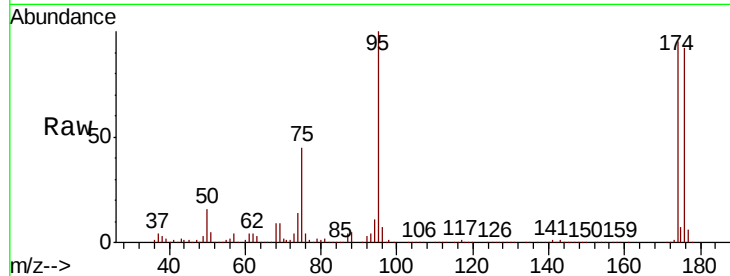




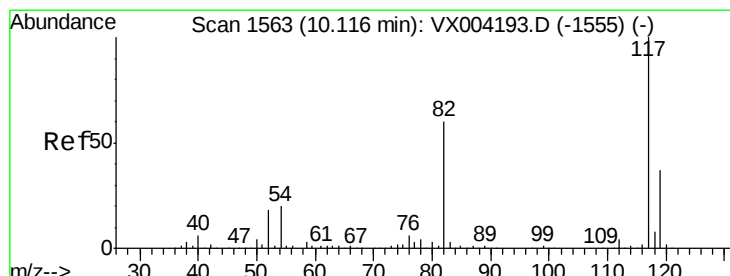
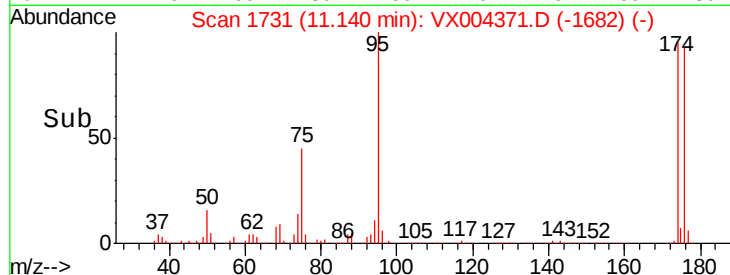
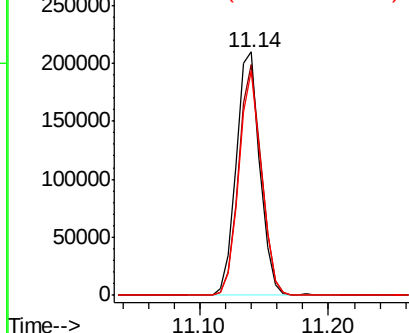
#62
4-Bromofluorobenzene
Concen: 50.92 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX004371.D
Acq: 05 Sep 2018 15:31

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 95 Resp: 269207
Ion Ratio Lower Upper
95 100
174 91.3 0.0 185.2
176 88.2 0.0 178.6

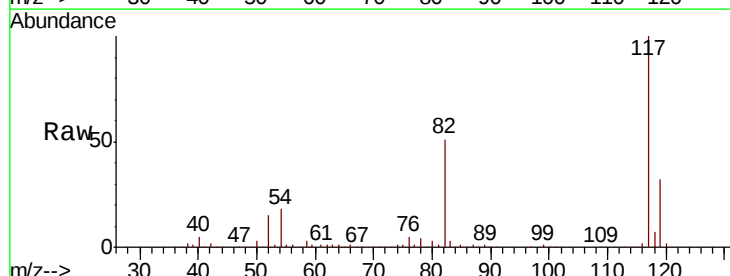


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

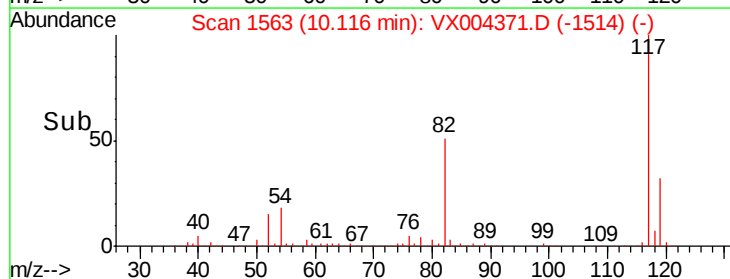
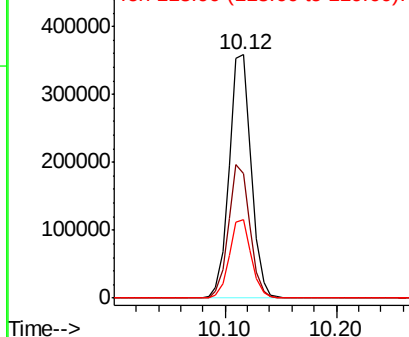


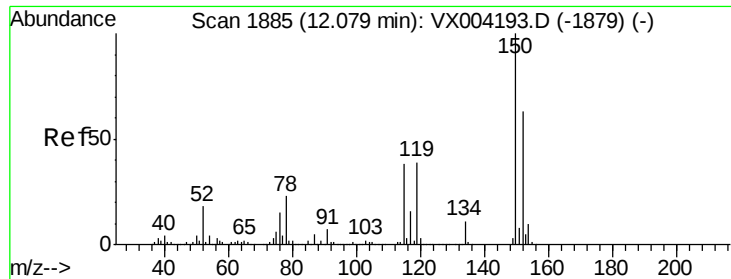
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX004371.D
Acq: 05 Sep 2018 15:31

Tgt Ion: 117 Resp: 488298
Ion Ratio Lower Upper
117 100
82 51.1 47.8 71.6
119 32.2 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: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX004371.D

Acq: 05 Sep 2018 15:31

Instrument :

MSVOA_X

ClientSampleId :

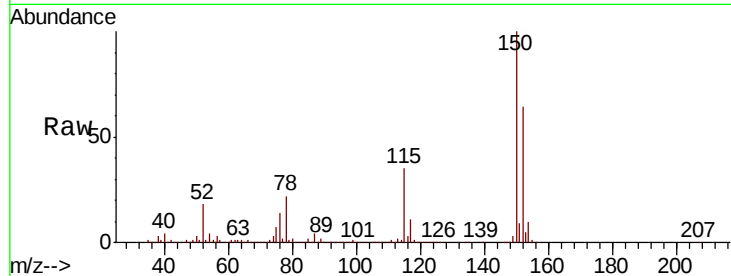
Tot Ion:152 Resp: 290425

Ion Ratio Lower Upper

152 100

115 54.2 39.0 117.0

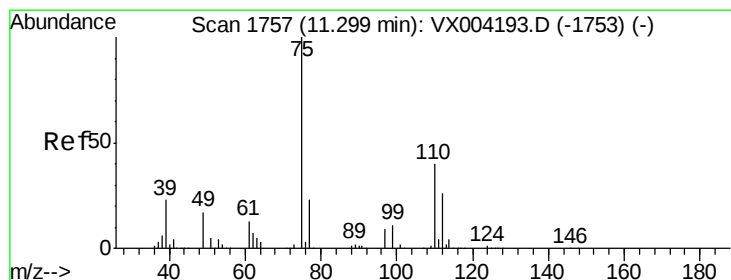
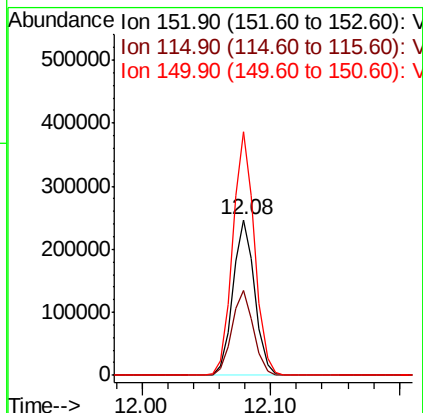
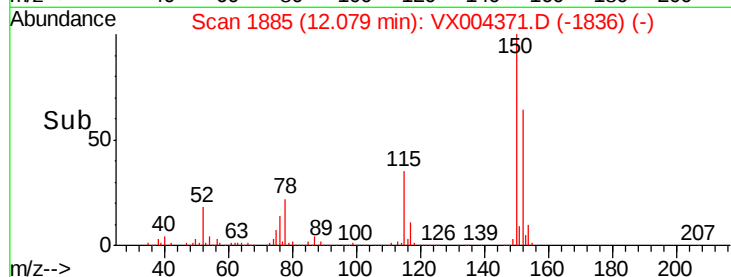
150 157.0 0.0 351.0



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: 21.35 ug/l

RT: 11.13 min Scan# 1730

Delta R.T. -0.16 min

Lab File: VX004371.D

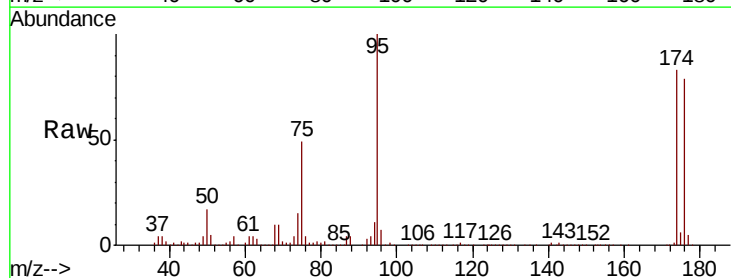
Acq: 05 Sep 2018 15:31

Tgt Ion: 75 Resp: 126095

Ion Ratio Lower Upper

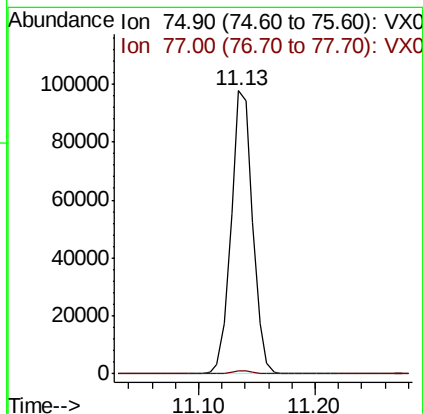
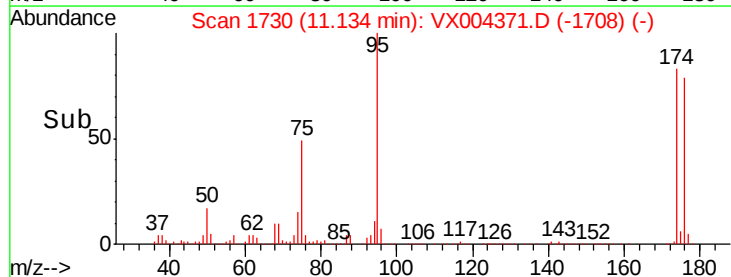
75 100

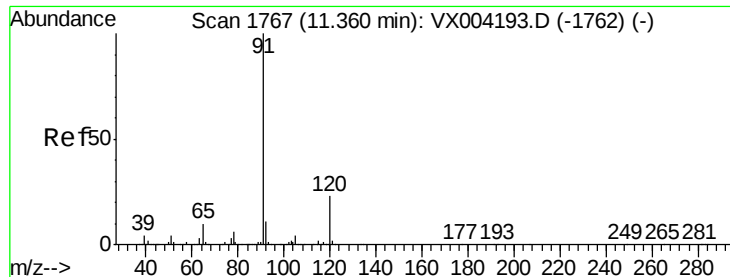
77 1.1 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#78

n-propylbenzene

Concen: 0.73 ug/l

RT: 11.36 min Scan# 1767

Delta R.T. 0.00 min

Lab File: VX004371.D

Acq: 05 Sep 2018 15:31

Instrument :

MSVOA_X

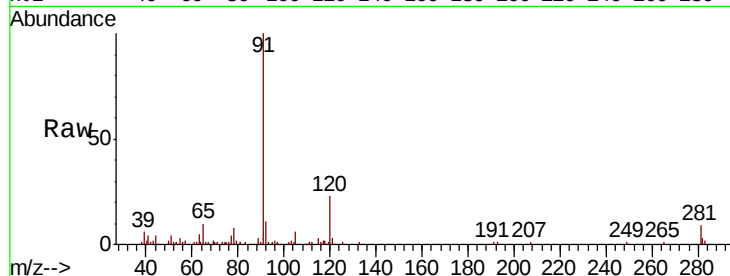
ClientSampleId :

Tot Ion: 91 Resp: 16008

Ion Ratio Lower Upper

91 100

120 24.8 11.9 35.9



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

15000

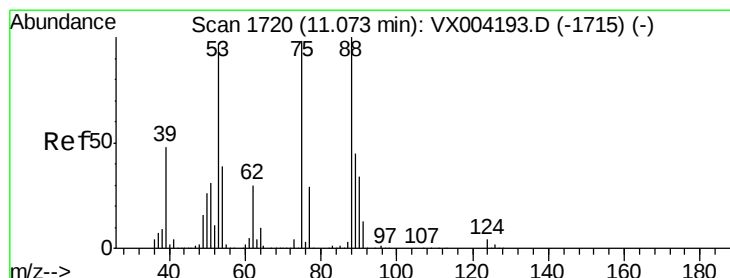
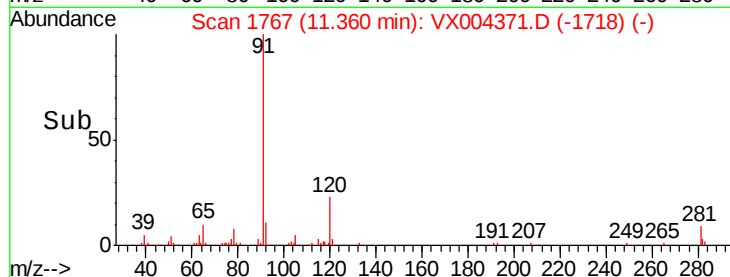
11.36

10000

5000

0

Time--> 11.30 11.35 11.40



#81

trans-1,4-Dichloro-2-butene

Concen: 69.26 ug/l

RT: 11.13 min Scan# 1730

Delta R.T. 0.06 min

Lab File: VX004371.D

Acq: 05 Sep 2018 15:31

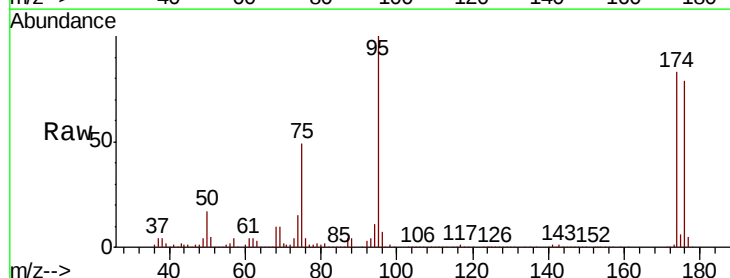
Tgt Ion: 75 Resp: 126095

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

120000

11.13

100000

80000

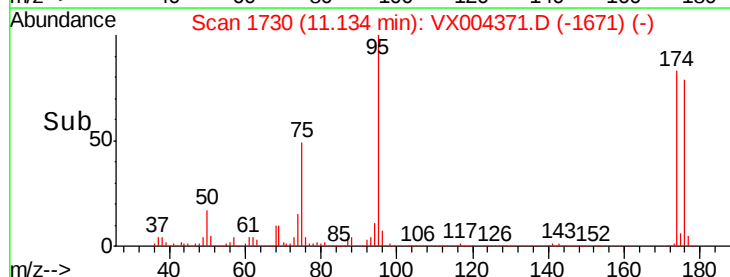
60000

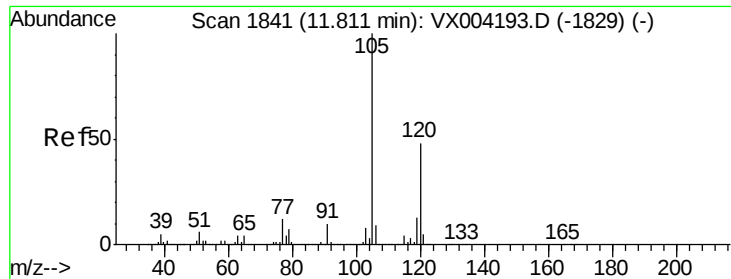
40000

20000

0

Time--> 11.10 11.20





#84

1,2,4-Trimethylbenzene

Concen: 4.61 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VX004371.D

Acq: 05 Sep 2018 15:31

Instrument :

MSVOA_X

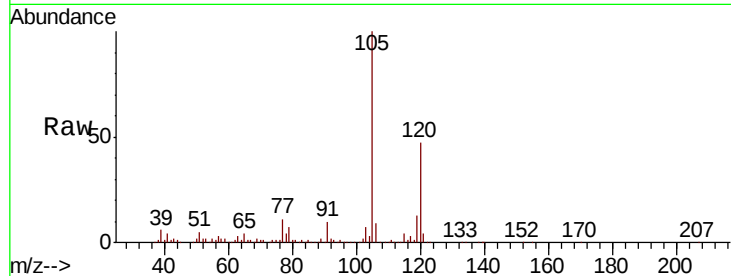
ClientSampleId :

Tot Ion:105 Resp: 74697

Ion Ratio Lower Upper

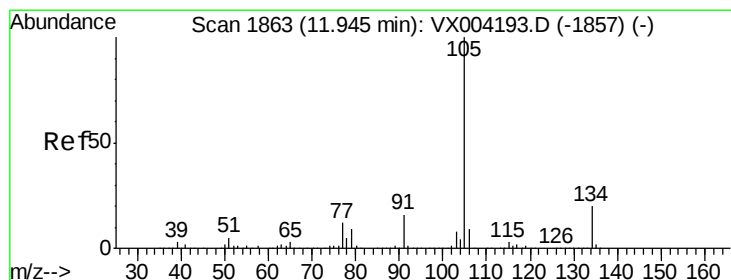
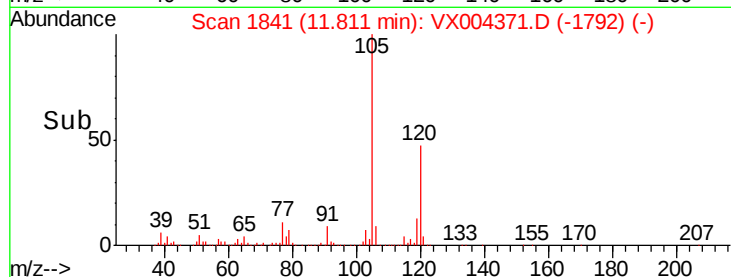
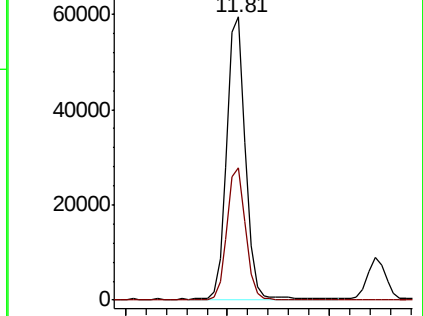
105 100

120 47.4 23.2 69.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 0.58 ug/l

RT: 11.95 min Scan# 1863

Delta R.T. 0.00 min

Lab File: VX004371.D

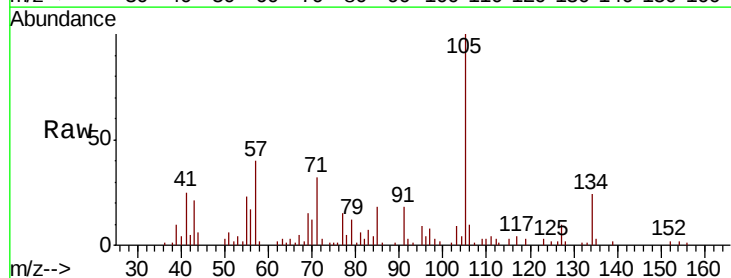
Acq: 05 Sep 2018 15:31

Tgt Ion:105 Resp: 11023

Ion Ratio Lower Upper

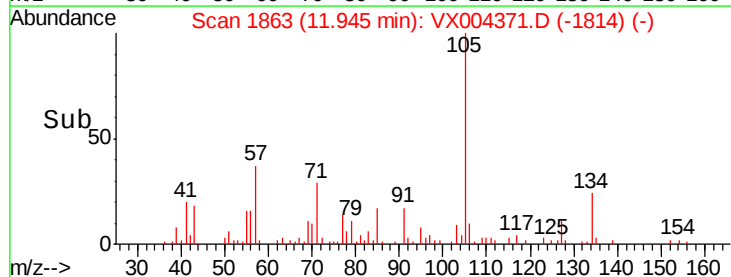
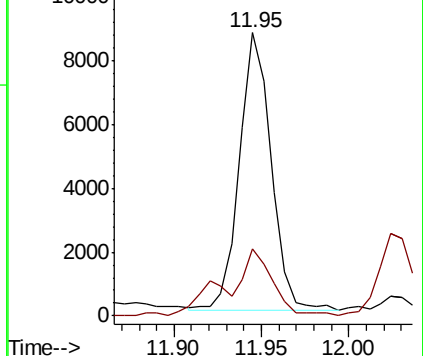
105 100

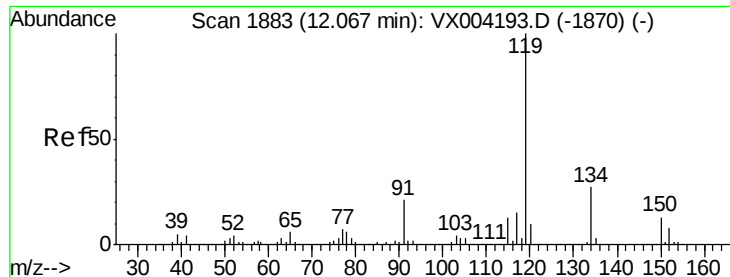
134 22.1 10.5 31.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

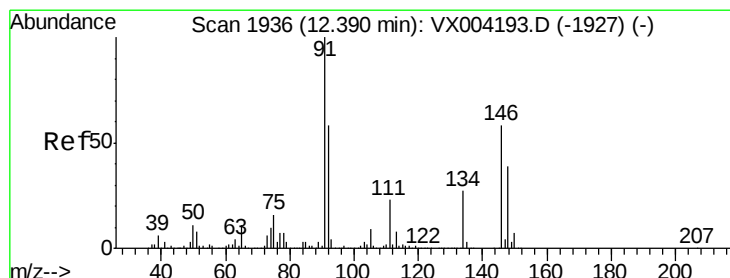
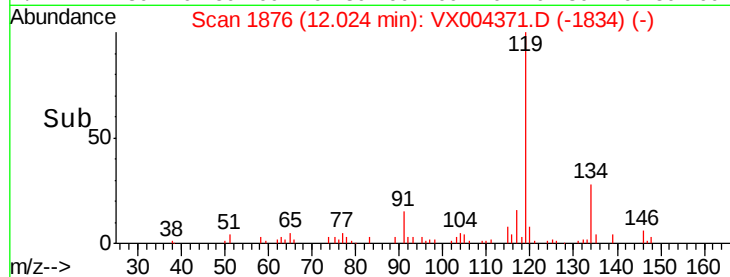
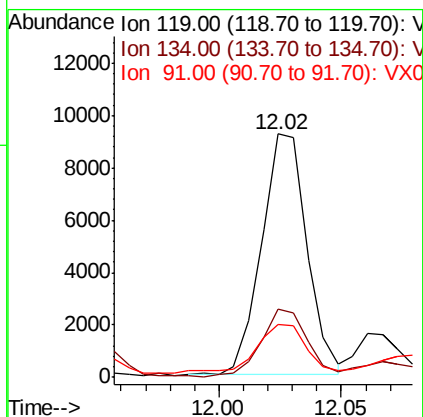
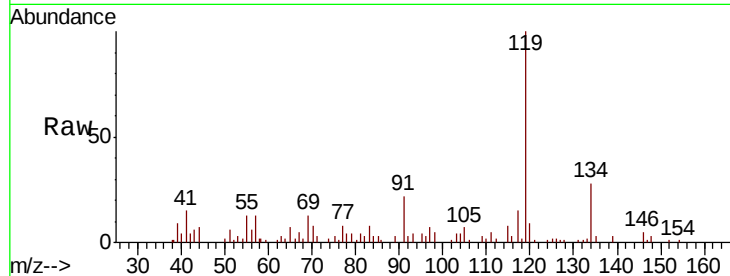




#86
 p-Isopropyltoluene
 Concen: 0.70 ug/l
 RT: 12.02 min Scan# 1876
 Delta R.T. -0.04 min
 Lab File: VX004371.D
 Acq: 05 Sep 2018 15:31

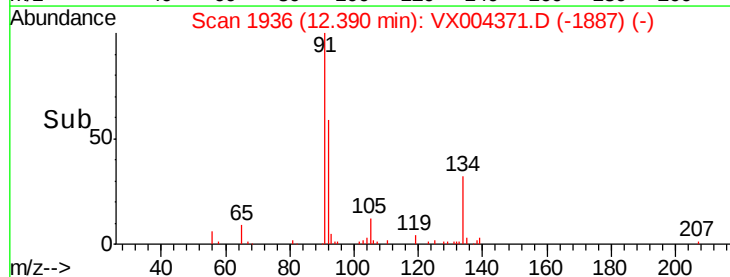
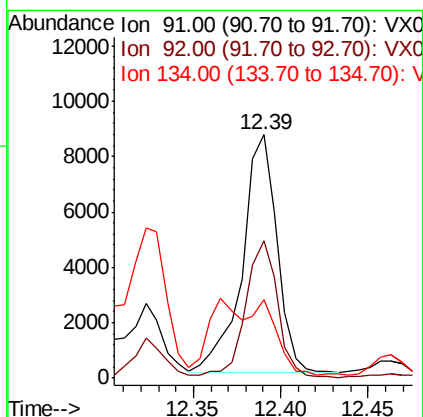
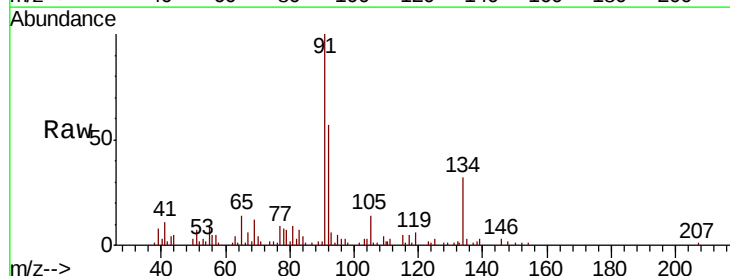
Instrument :
 MSVOA_X
 ClientSampleId :

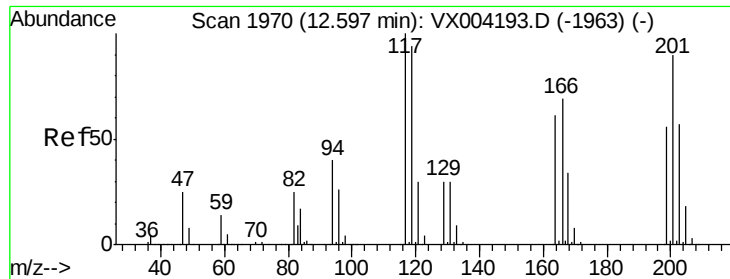
Tot Ion:119 Resp: 11885
 Ion Ratio Lower Upper
 119 100
 134 29.0 13.4 40.2
 91 22.0 10.9 32.7



#89
 n-Butylbenzene
 Concen: 0.86 ug/l
 RT: 12.39 min Scan# 1936
 Delta R.T. 0.00 min
 Lab File: VX004371.D
 Acq: 05 Sep 2018 15:31

Tgt Ion: 91 Resp: 11870
 Ion Ratio Lower Upper
 91 100
 92 54.0 27.3 81.9
 134 0.0 13.6 40.7#





#90

Hexachloroethane

Concen: 0.54 ug/l

RT: 12.59 min Scan# 1969

Delta R.T. -0.01 min

Lab File: VX004371.D

Acq: 05 Sep 2018 15:31

Instrument :

MSVOA_X

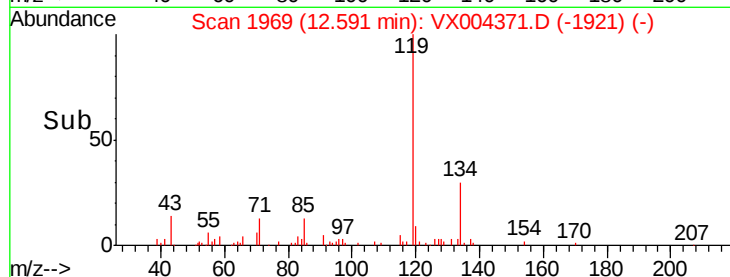
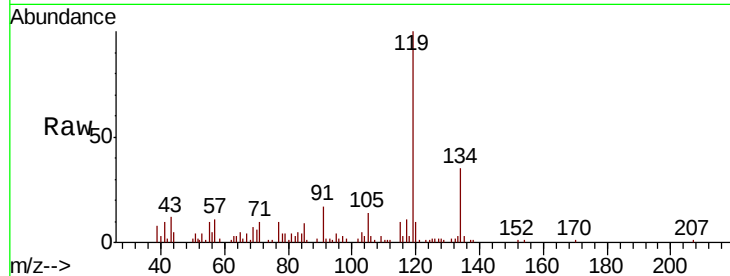
ClientSampleId :

Tot Ion:117 Resp: 1281

Ion Ratio Lower Upper

117 100

201 0.0 46.9 140.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

