

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062618\
 Data File : VX002920.D
 Acq On : 27 Jun 2018 03:15
 Operator : JC/MD
 Sample : J3707-14 50X
 Misc : 5.70µ/5mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 27 04:48:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	254353	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	358295	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	334953	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	195311	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	174975	49.77	ug/l	0.00
Spiked Amount			Recovery	=	99.54%	
35) Dibromofluoromethane	5.51	113	137413	48.43	ug/l	0.00
Spiked Amount			Recovery	=	96.86%	
50) Toluene-d8	8.72	98	504125	48.65	ug/l	0.00
Spiked Amount			Recovery	=	97.30%	
62) 4-Bromofluorobenzene	11.14	95	184436	46.16	ug/l	0.00
Spiked Amount			Recovery	=	92.32%	

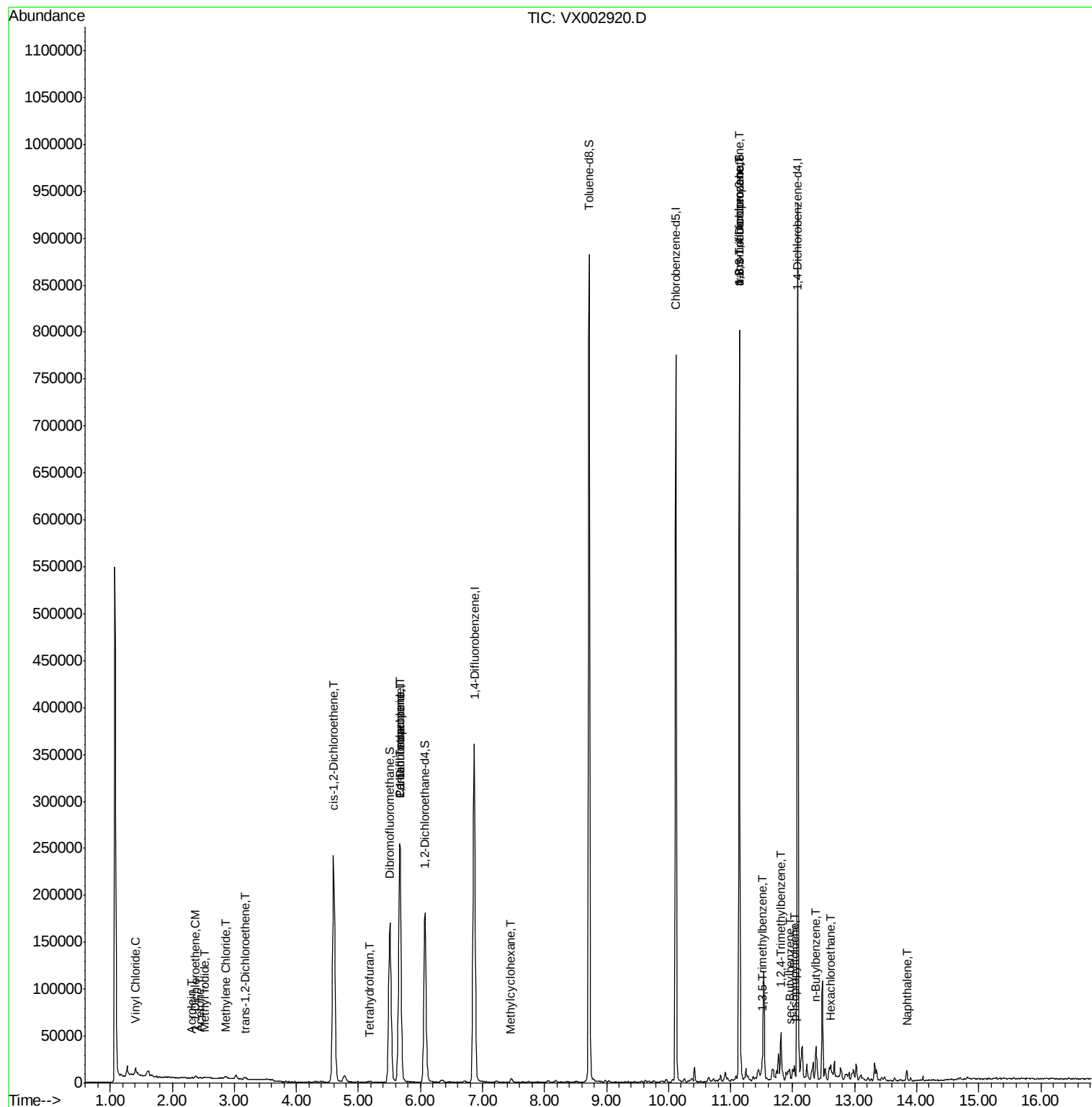
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	700	Below Cal	#	79
4) Vinyl Chloride	1.40	62	3067	1.07	ug/l	# 1
5) Bromomethane	1.64	94	725	Below Cal		100
6) Chloroethane	1.70	64	131	Below Cal	#	43
10) Methyl Iodide	2.52	142	1023	6.54	ug/l	98
12) 1,1-Dichloroethene	2.38	96	632	0.25	ug/l	# 65
13) Acrolein	2.30	56	252	4.87	ug/l	# 50
16) Acetone	2.45	43	1018	0.70	ug/l	# 84
20) Methylene Chloride	2.86	84	969	0.34	ug/l	# 81
21) trans-1,2-Dichloroethene	3.16	96	681	0.25	ug/l	# 65
27) cis-1,2-Dichloroethene	4.60	96	148212	48.38	ug/l	85
29) Tetrahydrofuran	5.18	42	742	0.54	ug/l	# 75
36) 1,1-Dichloropropene	5.67	75	17179	4.37	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	23374	5.42	ug/l	# 15
39) Methylcyclohexane	7.45	83	1492	0.33	ug/l	# 83
76) 1,2,3-Trichloropropane	11.14	75	96606	27.31	ug/l	# 33
80) 1,3,5-Trimethylbenzene	11.51	105	7961	0.72	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.14	75	96606	77.26	ug/l	# 7
84) 1,2,4-Trimethylbenzene	11.81	105	18526	1.62	ug/l	97
85) sec-Butylbenzene	11.95	105	2886	0.22	ug/l	# 56
86) p-Isopropyltoluene	12.03	119	3785	0.32	ug/l	92
89) n-Butylbenzene	12.38	91	5250	0.51	ug/l	# 41
90) Hexachloroethane	12.61	117	1318	0.74	ug/l	# 1
95) Naphthalene	13.84	128	6491	0.49	ug/l	98

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
Quant Title : SW846 8260
QLast Update : Mon Jun 25 14:38:05 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX002920.D

Acq: 27 Jun 2018 03:15

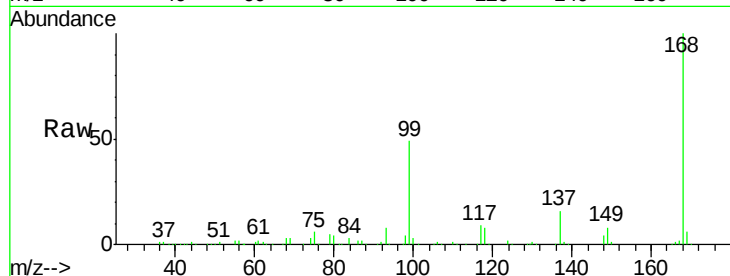
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 254353

Ion Ratio Lower Upper

168 100

99 49.1 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

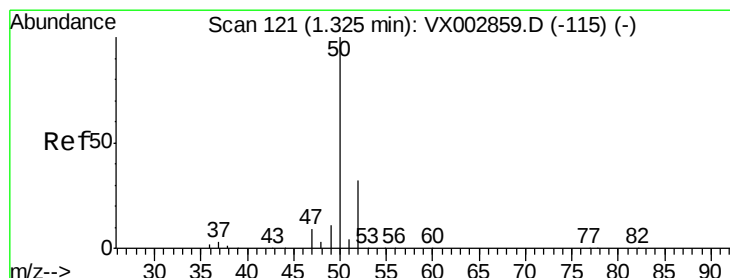
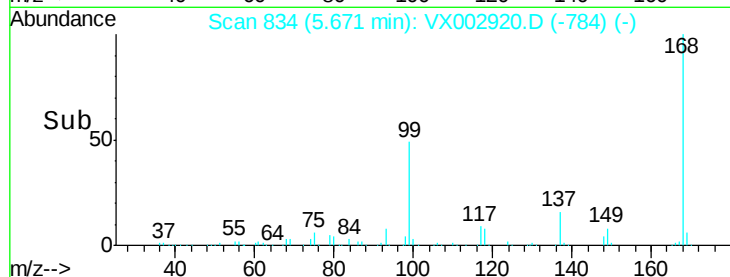
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002920.D

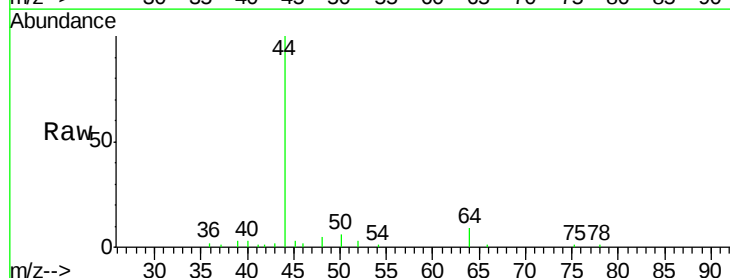
Acq: 27 Jun 2018 03:15

Tgt Ion: 50 Resp: 700

Ion Ratio Lower Upper

50 100

52 44.0 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

400

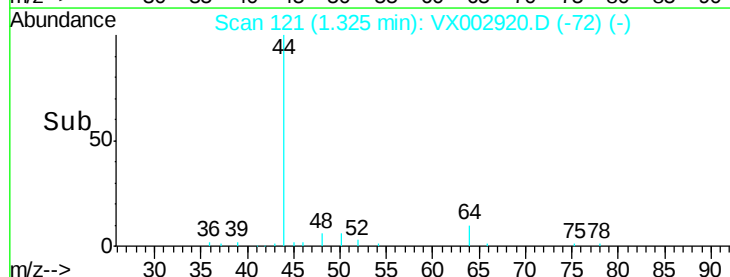
300

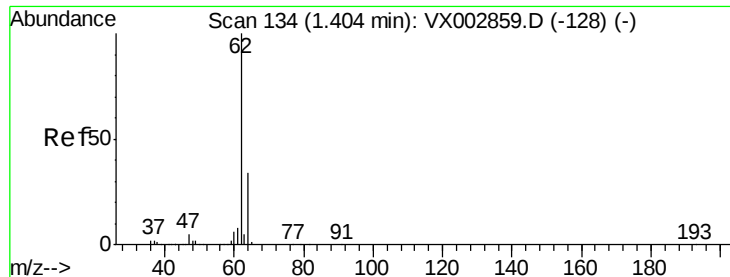
200

100

0

Time--> 1.30 1.35





#4

Vinyl Chloride

Concen: 1.07 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX002920.D

Acq: 27 Jun 2018 03:15

Instrument :

MSVOA_X

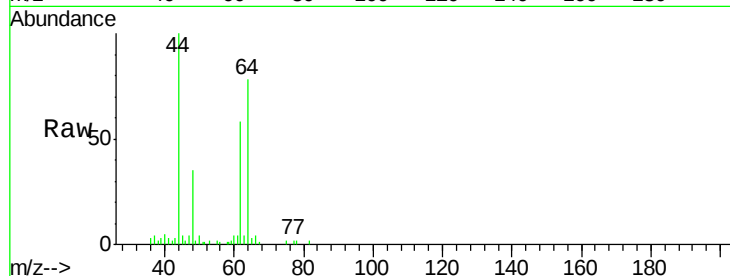
ClientSampled :

Tot Ion: 62 Resp: 3067

Ion Ratio Lower Upper

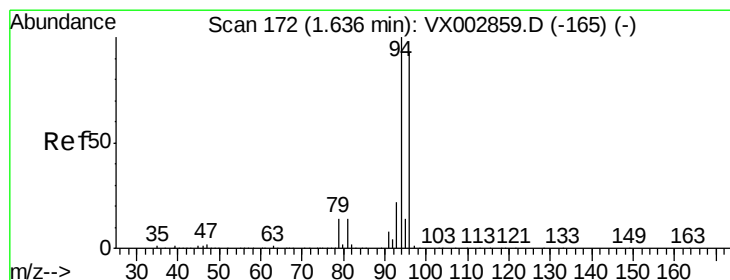
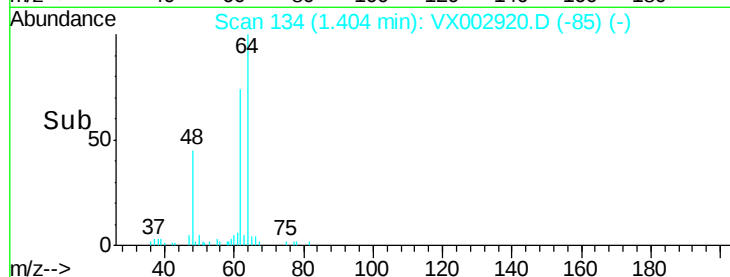
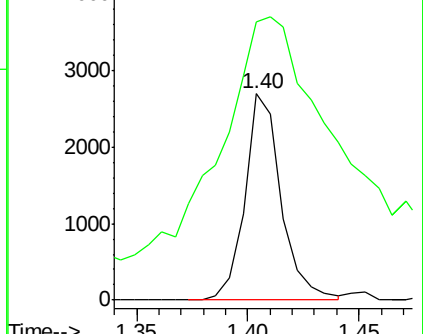
62 100

64 88.4 25.4 38.2#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX002920.D

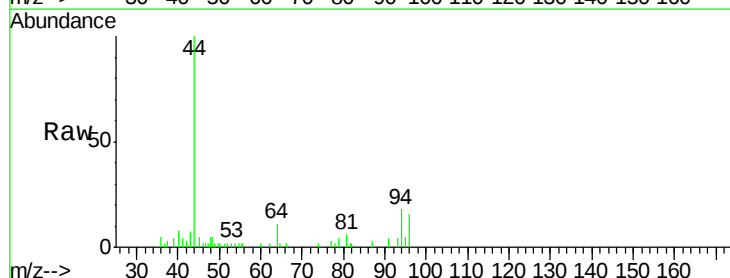
Acq: 27 Jun 2018 03:15

Tgt Ion: 94 Resp: 725

Ion Ratio Lower Upper

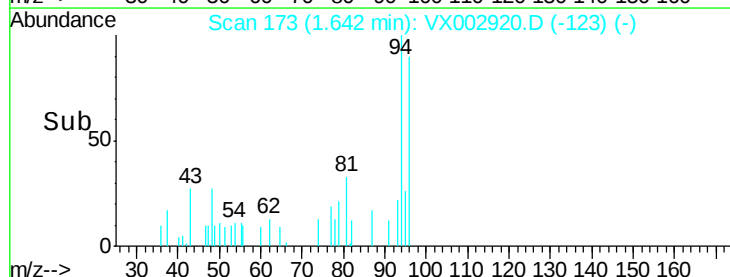
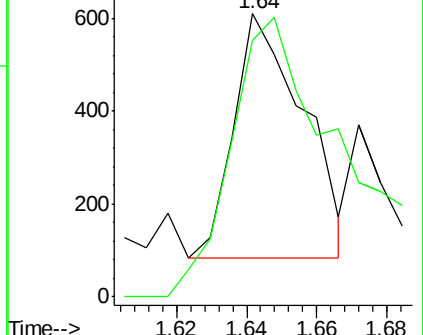
94 100

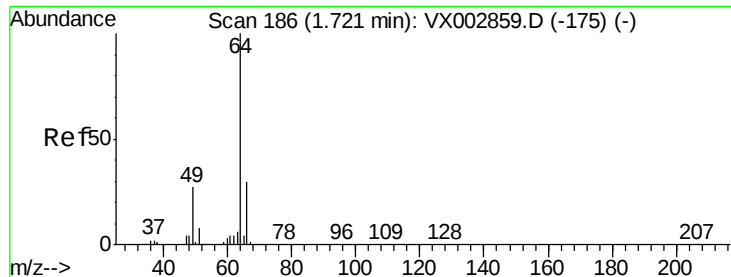
96 93.9 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 182

Delta R.T. -0.02 min

Lab File: VX002920.D

Acq: 27 Jun 2018 03:15

Instrument :

MSVOA_X

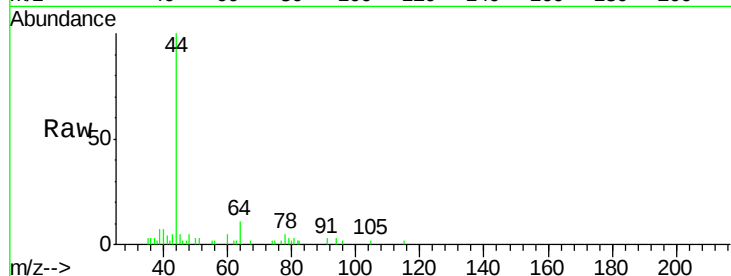
ClientSampled :

Tot Ion: 64 Resp: 131

Ion Ratio Lower Upper

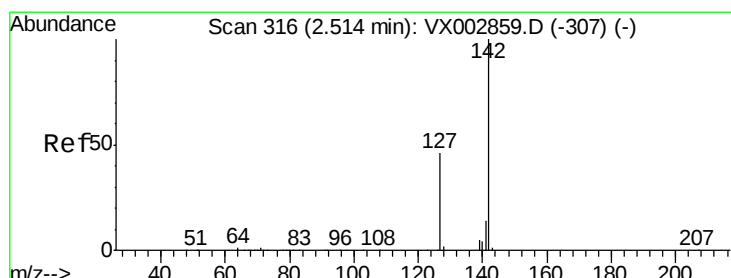
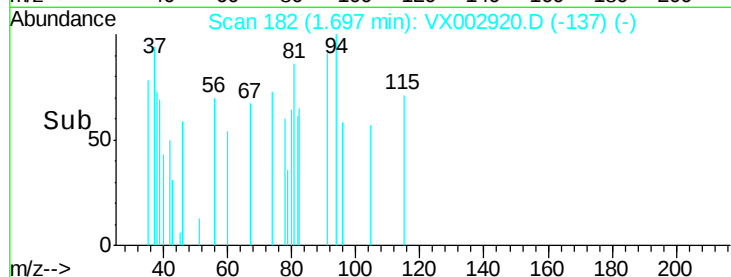
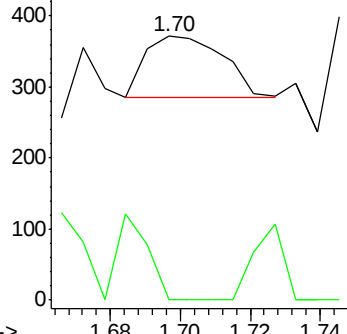
64 100

66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 6.54 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002920.D

Acq: 27 Jun 2018 03:15

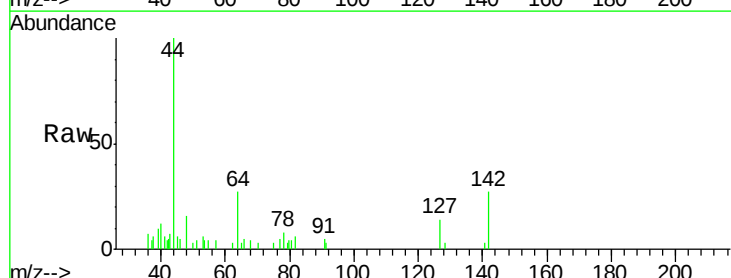
Tgt Ion:142 Resp: 1023

Ion Ratio Lower Upper

142 100

127 45.3 36.6 55.0

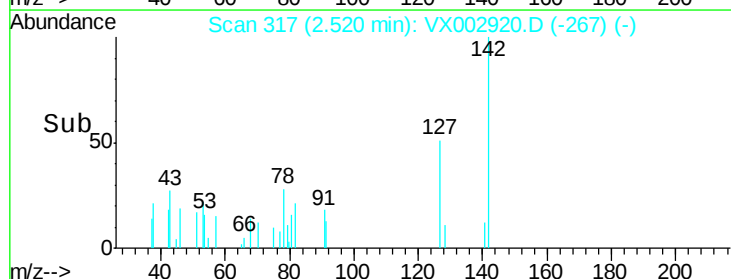
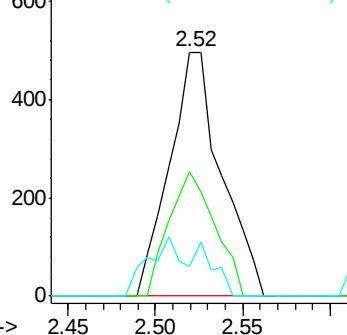
141 16.4 11.3 16.9

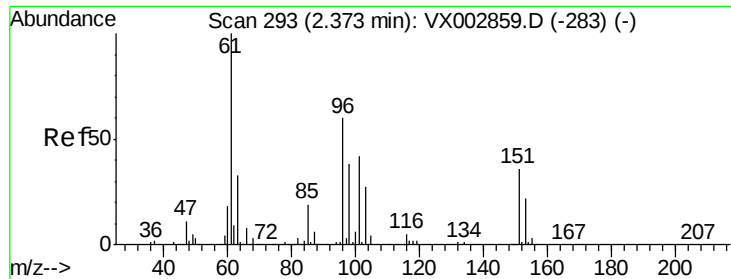


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#12

1,1-Dichloroethene

Concen: 0.25 ug/l

RT: 2.38 min Scan# 294

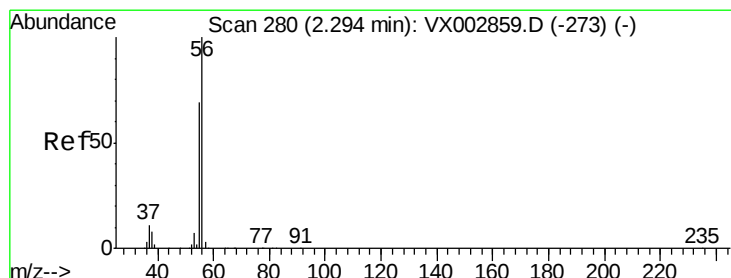
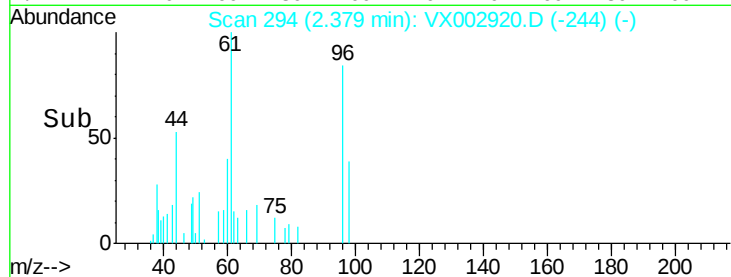
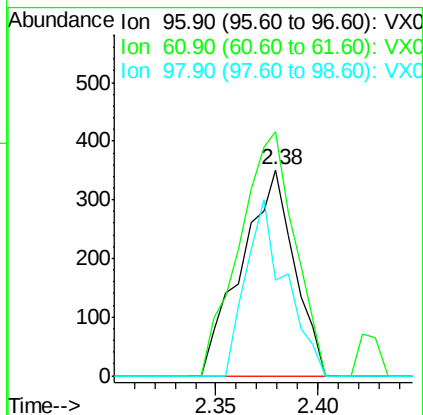
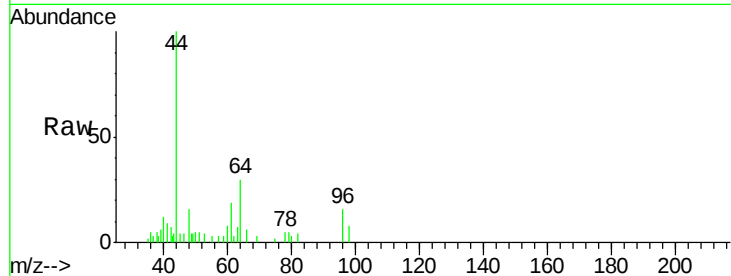
Delta R.T. 0.01 min

Lab File: VX002920.D

Acq: 27 Jun 2018 03:15

Instrument :
MSVOA_X
ClientSampled :

Tot Ion	Ratio	Lower	Upper
96	100		
61	118.5	137.9	206.9#
98	46.2	51.6	77.4#



#13

Acrolein

Concen: 4.87 ug/l

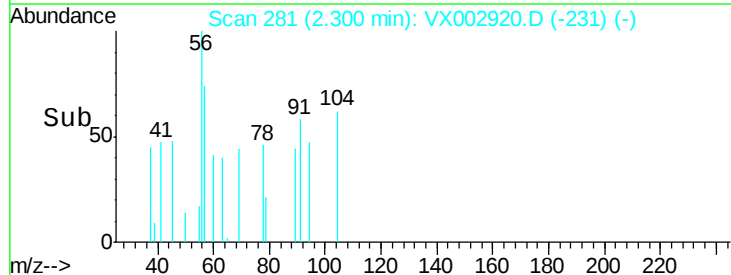
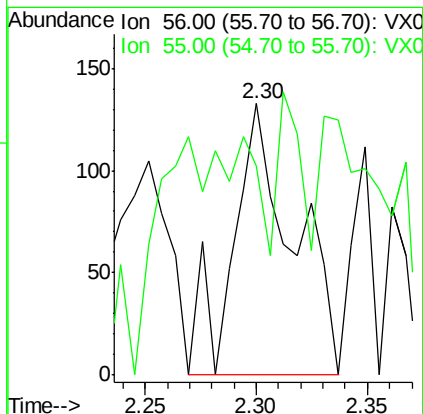
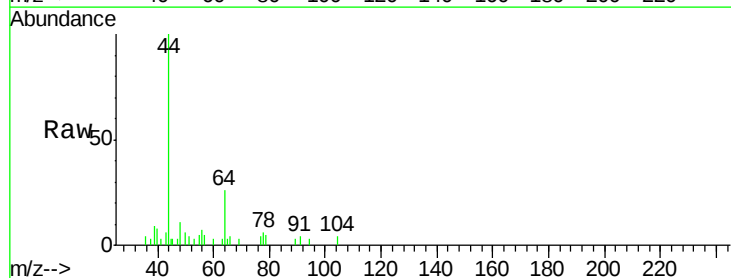
RT: 2.30 min Scan# 281

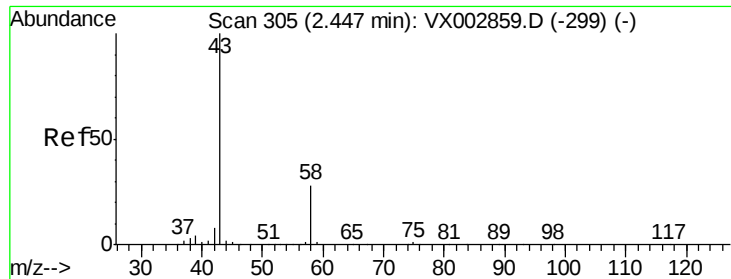
Delta R.T. 0.01 min

Lab File: VX002920.D

Acq: 27 Jun 2018 03:15

Tgt Ion	Ratio	Lower	Upper
56	100		
55	30.2	57.0	85.4#





#16

Acetone

Concen: 0.70 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX002920.D

Acq: 27 Jun 2018 03:15

Instrument :

MSVOA_X

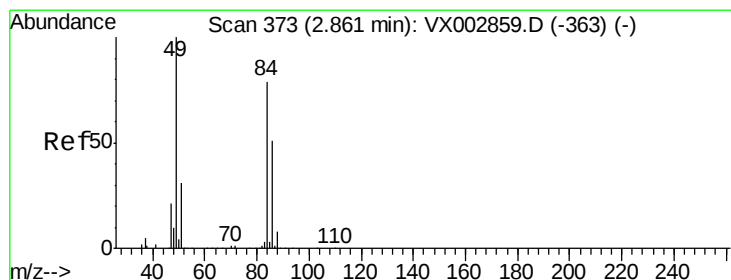
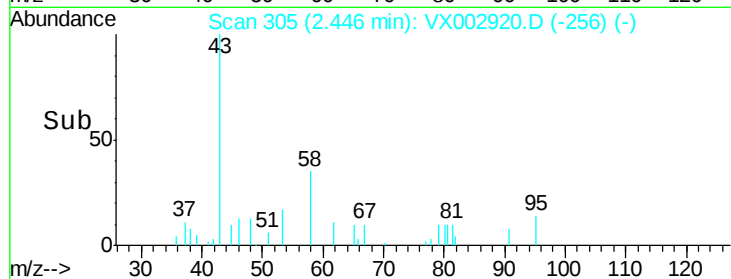
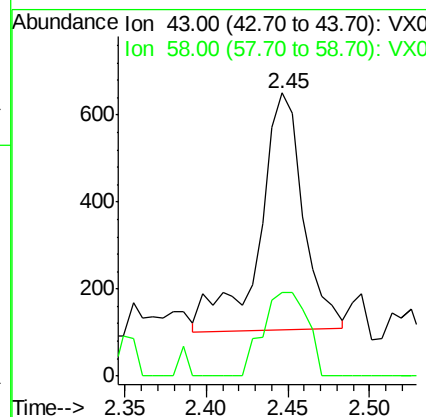
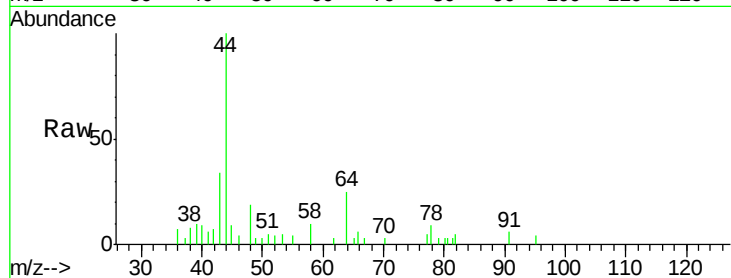
ClientSampleId :

Tot Ion: 43 Resp: 1018

Ion Ratio Lower Upper

43 100

58 36.1 22.1 33.1#



#20

Methylene Chloride

Concen: 0.34 ug/l

RT: 2.86 min Scan# 373

Delta R.T. -0.00 min

Lab File: VX002920.D

Acq: 27 Jun 2018 03:15

Tgt Ion: 84 Resp: 969

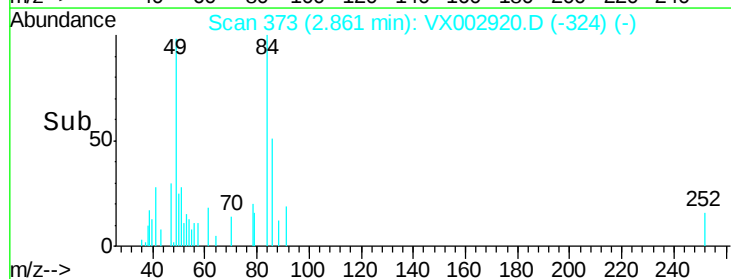
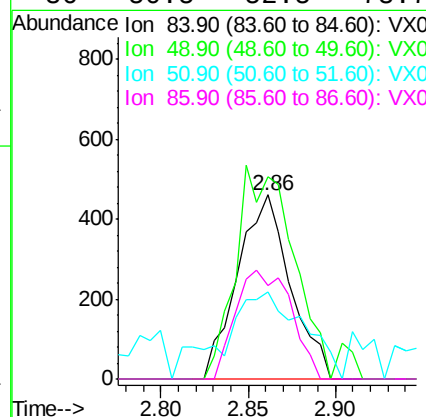
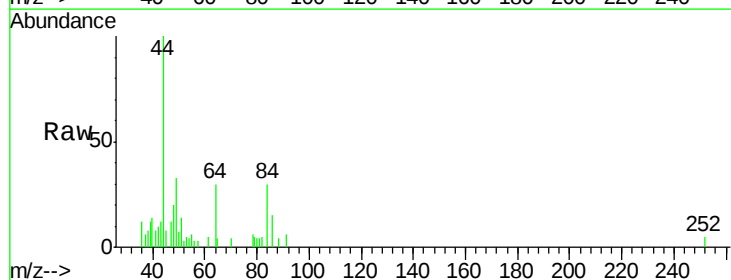
Ion Ratio Lower Upper

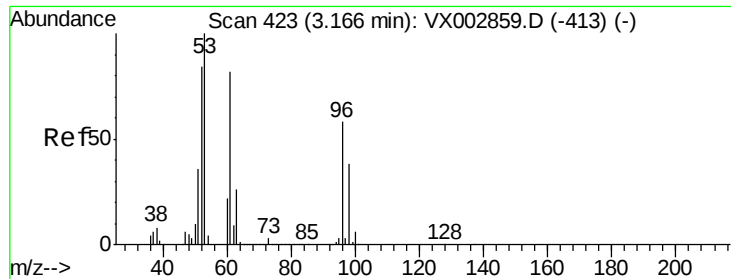
84 100

49 109.8 107.8 161.6

51 47.3 32.8 49.2

86 50.5 52.5 78.7#





#21

trans-1,2-Dichloroethene

Concen: 0.25 ug/l

RT: 3.16 min Scan# 422

Delta R.T. -0.01 min

Lab File: VX002920.D

Acq: 27 Jun 2018 03:15

Instrument :

MSVOA_X

ClientSampleId :

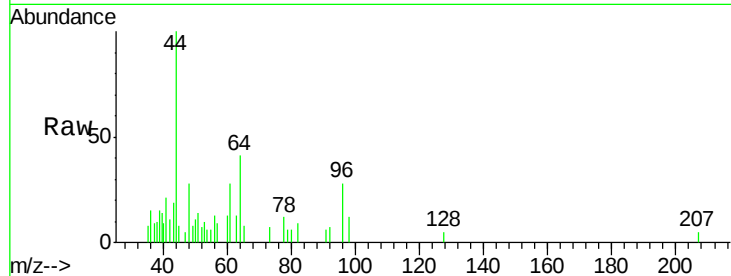
Tot Ion: 96 Resp: 681

Ion Ratio Lower Upper

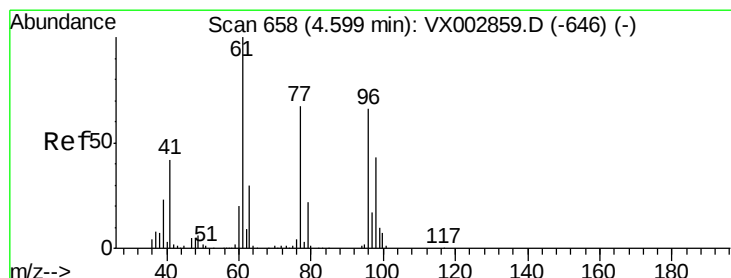
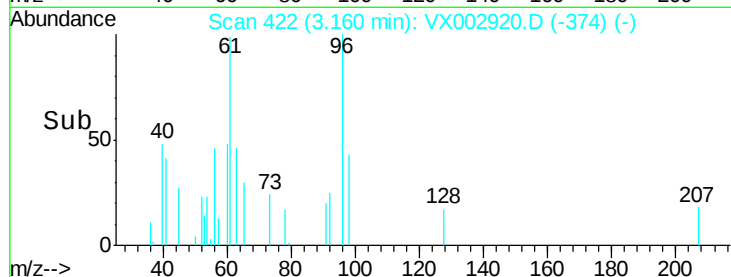
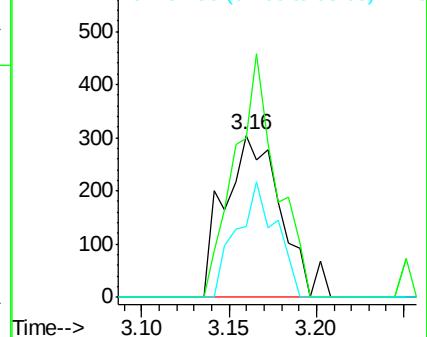
96 100

61 98.7 117.0 175.4#

98 43.4 52.4 78.6#



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 48.38 ug/l

RT: 4.60 min Scan# 658

Delta R.T. -0.00 min

Lab File: VX002920.D

Acq: 27 Jun 2018 03:15

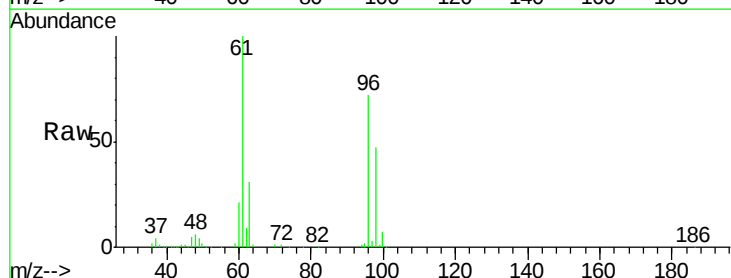
Tgt Ion: 96 Resp: 148212

Ion Ratio Lower Upper

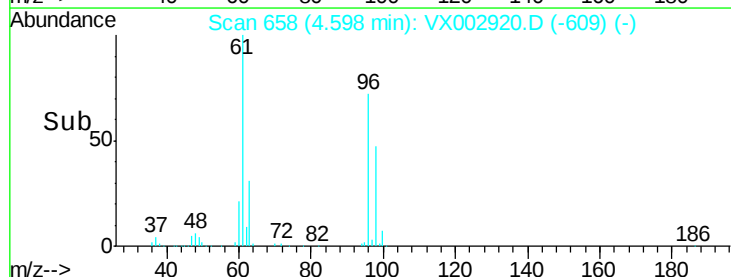
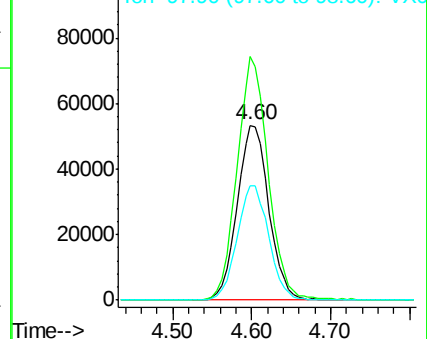
96 100

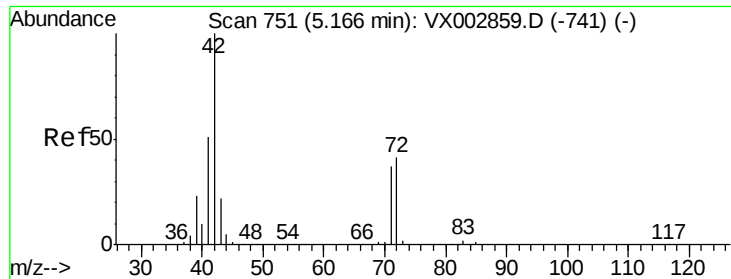
61 136.9 0.0 330.2

98 65.8 0.0 130.2



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0

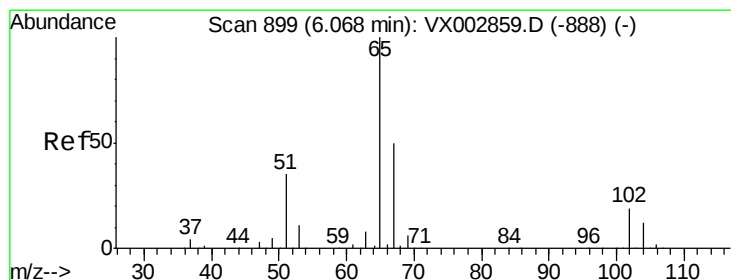
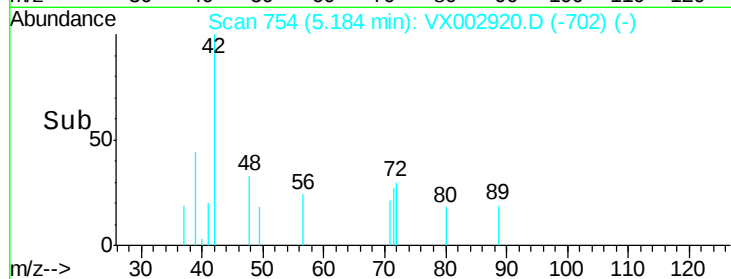
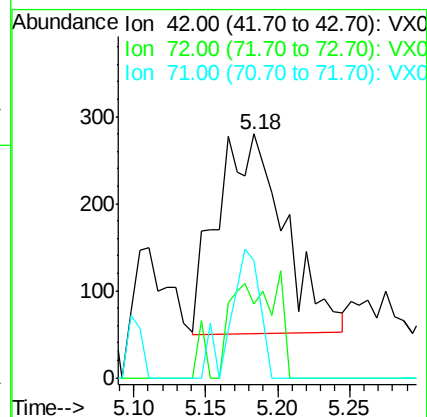
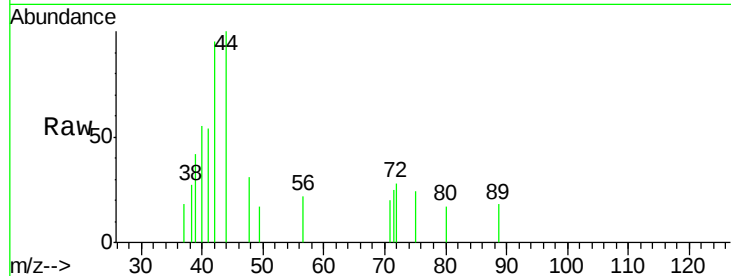




#29
Tetrahydrofuran
Concen: 0.54 ug/l
RT: 5.18 min Scan# 754
Delta R.T. 0.02 min
Lab File: VX002920.D
Acq: 27 Jun 2018 03:15

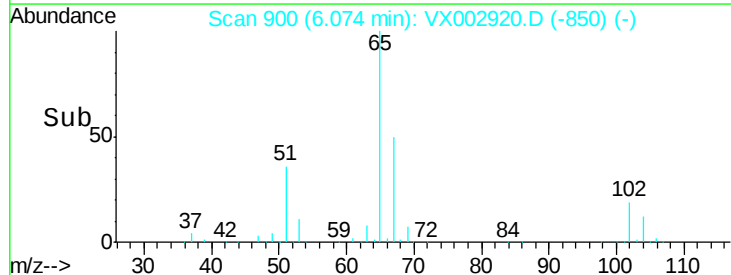
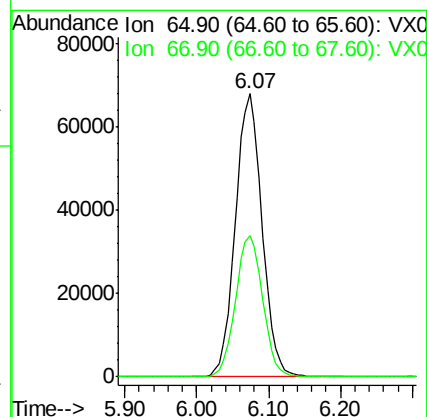
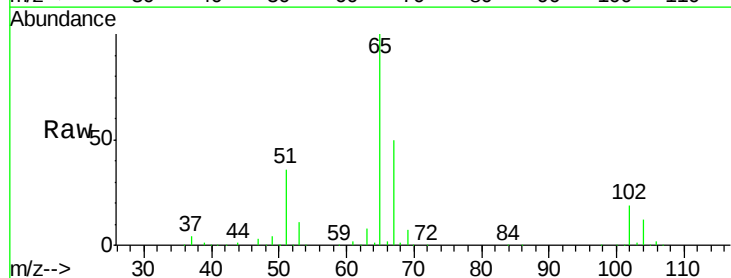
Instrument :
MSVOA_X
ClientSampleId :

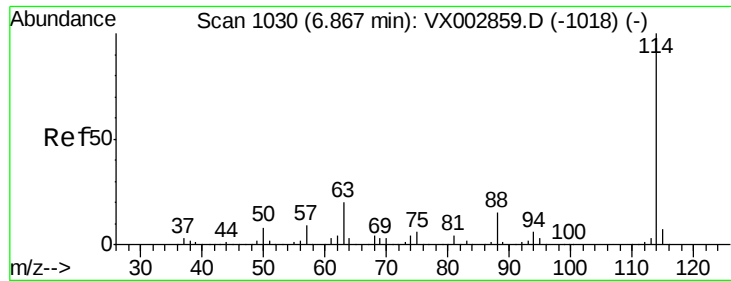
Tot Ion: 42 Resp: 742
Ion Ratio Lower Upper
42 100
72 18.6 32.0 48.0#
71 28.3 30.1 45.1#



#33
1,2-Dichloroethane-d4
Concen: 49.77 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.01 min
Lab File: VX002920.D
Acq: 27 Jun 2018 03:15

Tgt Ion: 65 Resp: 174975
Ion Ratio Lower Upper
65 100
67 50.8 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002920.D

Acq: 27 Jun 2018 03:15

Instrument :

MSVOA_X

ClientSampleId :

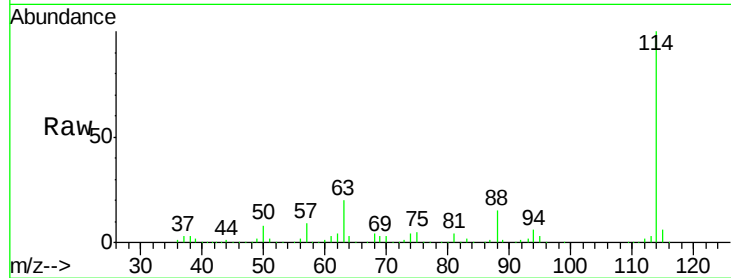
Tot Ion:114 Resp: 358295

Ion Ratio Lower Upper

114 100

63 20.3 0.0 41.4

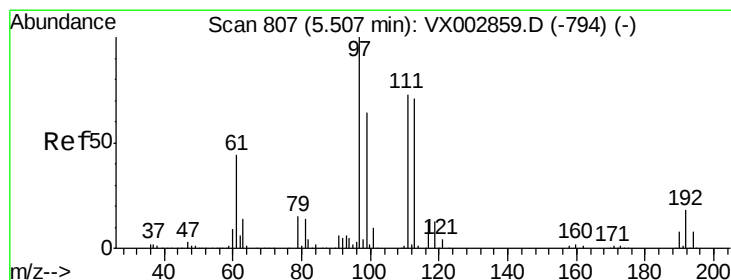
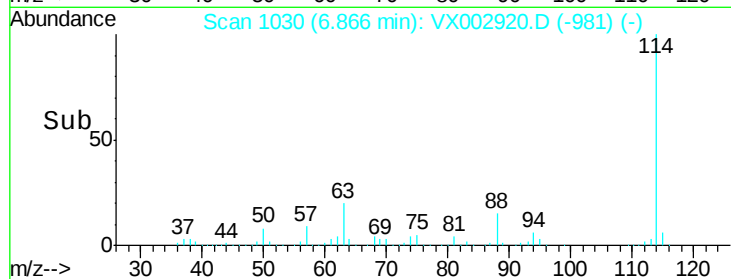
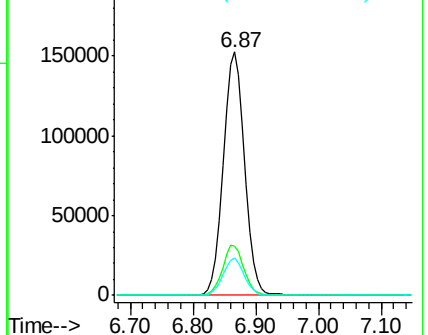
88 15.3 0.0 30.0



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: 48.43 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002920.D

Acq: 27 Jun 2018 03:15

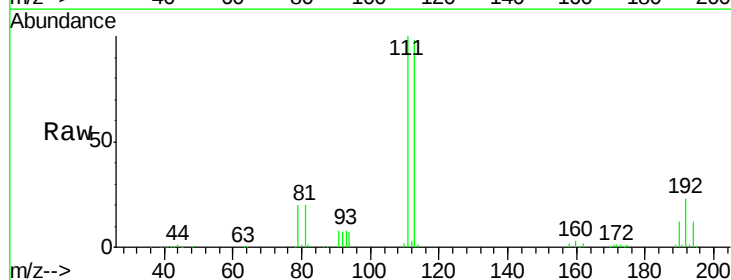
Tgt Ion:113 Resp: 137413

Ion Ratio Lower Upper

113 100

111 102.3 81.4 122.0

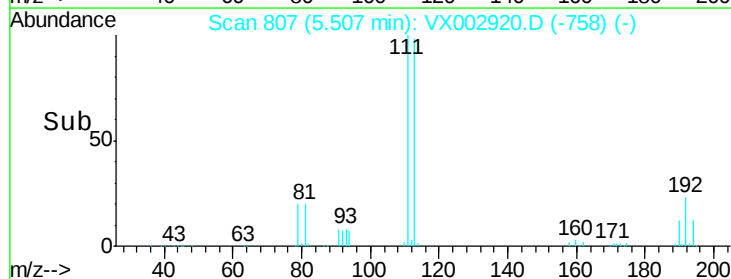
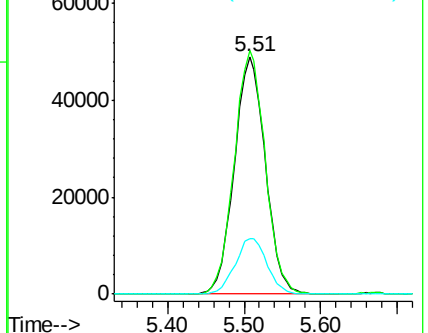
192 24.2 19.1 28.7

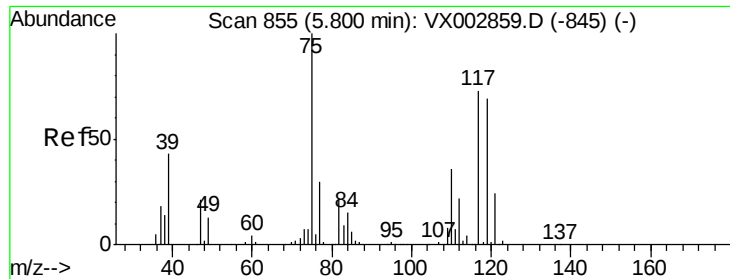


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

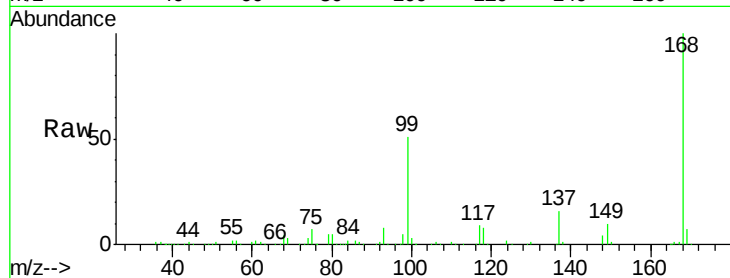




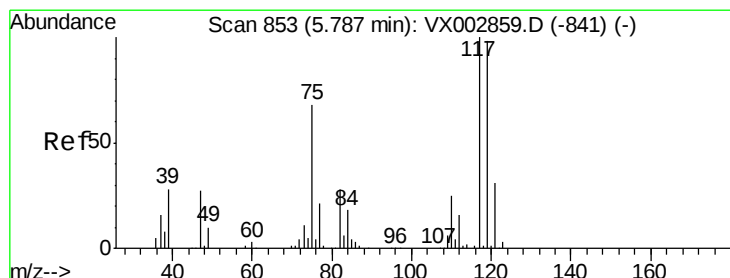
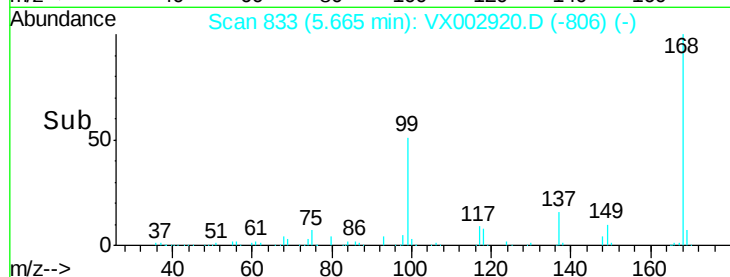
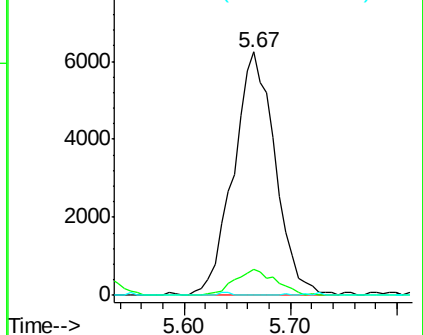
#36
 1,1-Dichloropropene
 Concen: 4.37 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002920.D
 Acq: 27 Jun 2018 03:15

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 17179
 Ion Ratio Lower Upper
 75 100
 110 10.7 18.1 54.4#
 77 0.0 24.3 36.5#

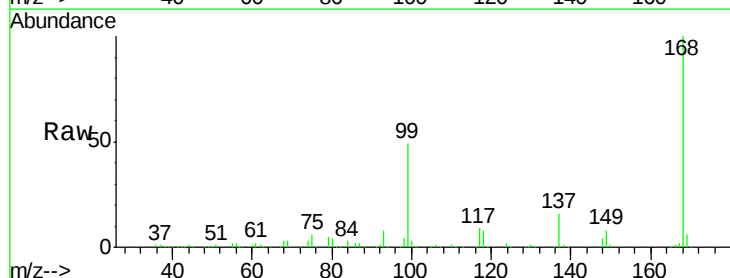


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

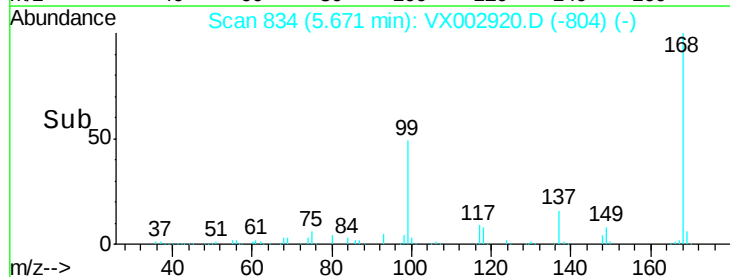
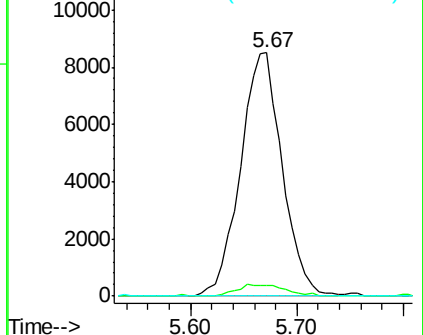


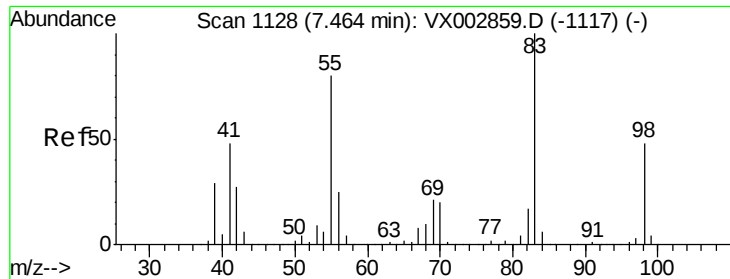
#38
 Carbon Tetrachloride
 Concen: 5.42 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002920.D
 Acq: 27 Jun 2018 03:15

Tgt Ion: 117 Resp: 23374
 Ion Ratio Lower Upper
 117 100
 119 4.6 77.4 116.0#
 121 0.0 24.4 36.6#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V

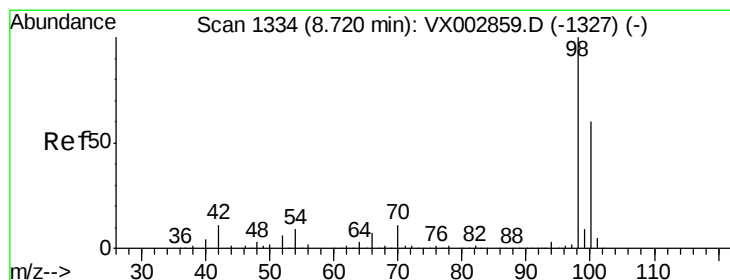
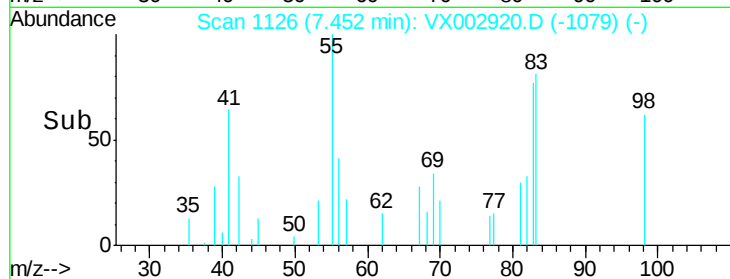
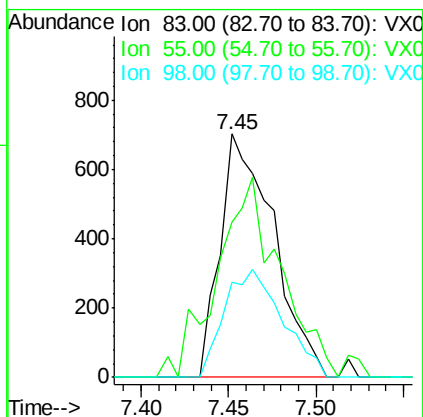
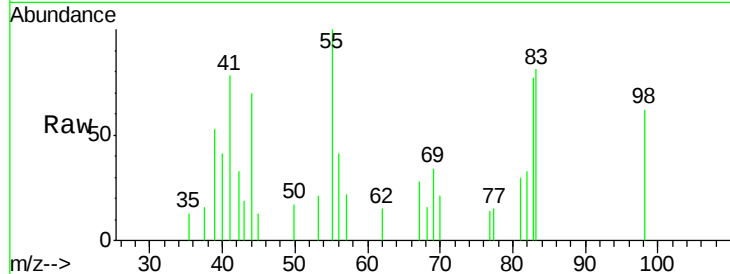




#39
Methvlcvclohexane
Concen: 0.33 ug/l
RT: 7.45 min Scan# 1126
Delta R.T. -0.01 min
Lab File: VX002920.D
Acq: 27 Jun 2018 03:15

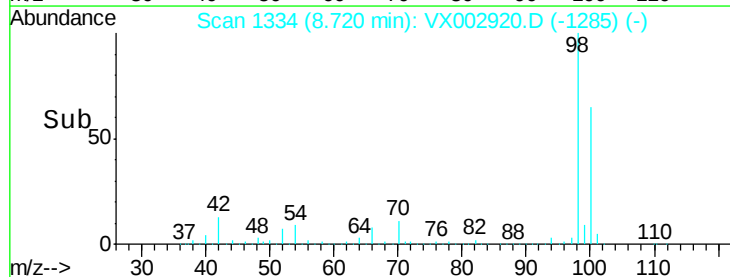
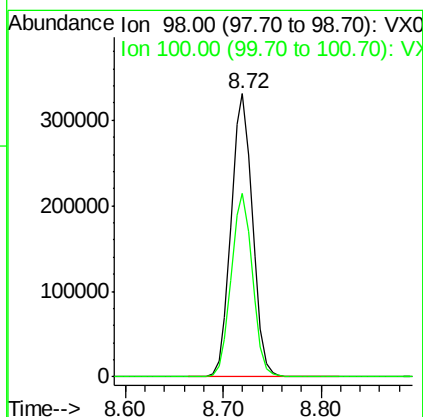
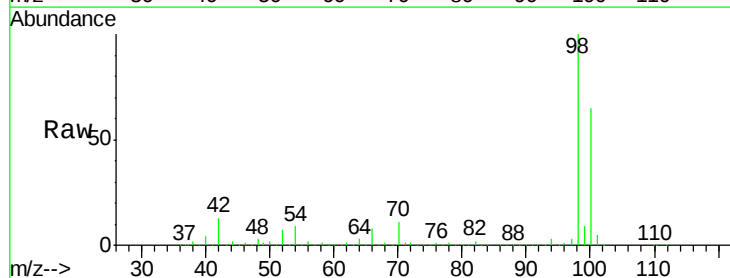
Instrument :
MSVOA_X
ClientSampled :

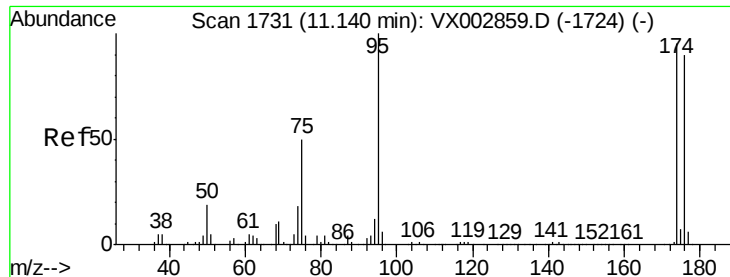
Tot Ion: 83 Resp: 1492
Ion Ratio Lower Upper
83 100
55 63.6 65.4 98.0#
98 39.1 37.4 56.0



#50
Toluene-d8
Concen: 48.65 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002920.D
Acq: 27 Jun 2018 03:15

Tgt Ion: 98 Resp: 504125
Ion Ratio Lower Upper
98 100
100 64.3 50.9 76.3

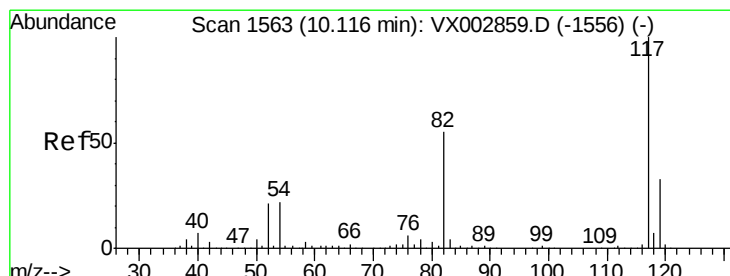
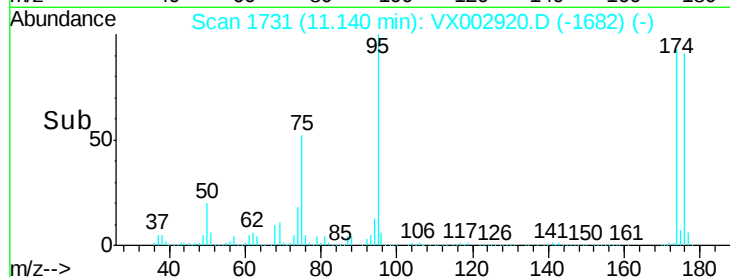
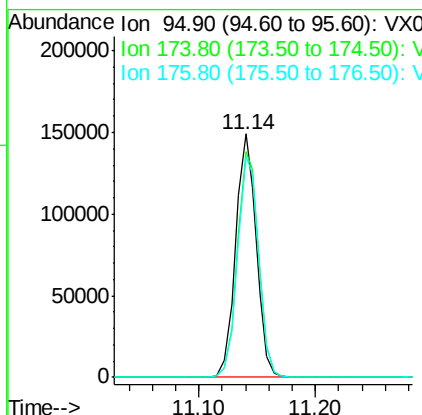
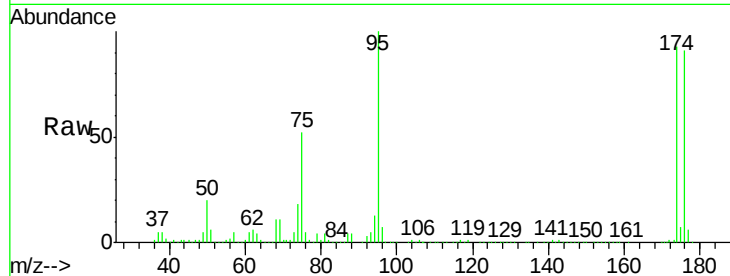




#62
4-Bromofluorobenzene
Concen: 46.16 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002920.D
Acq: 27 Jun 2018 03:15

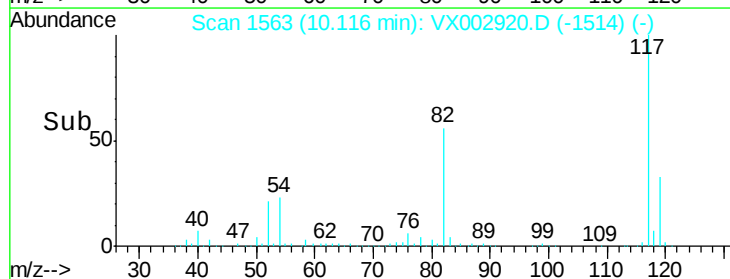
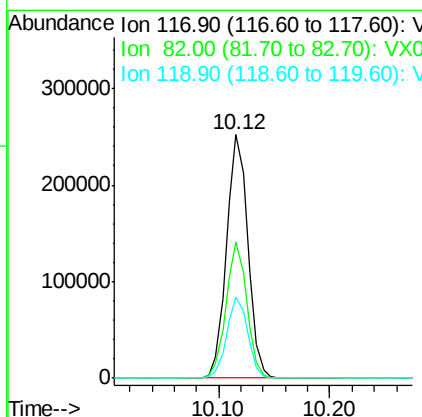
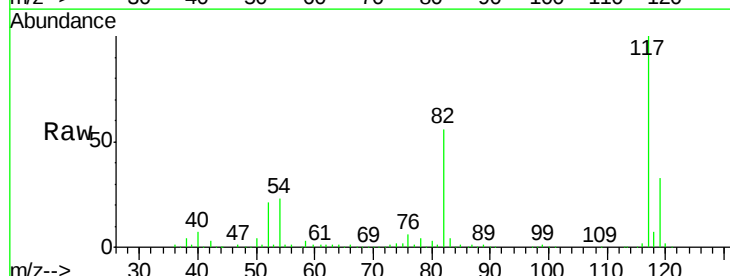
Instrument :
MSVOA_X
ClientSampleId :

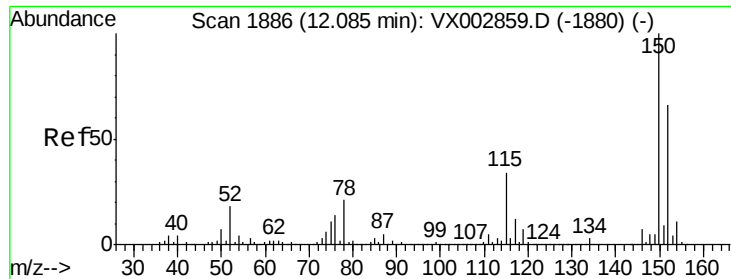
Tot Ion	95	Resp	184436
Ion Ratio	100		
Lower			
Upper			
95	100		
174	95.2	0.0	187.4
176	92.4	0.0	181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002920.D
Acq: 27 Jun 2018 03:15

Tgt Ion	117	Resp	334953
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower <td></td> <td></td> <td></td>			
Upper <td></td> <td></td> <td></td>			
117	100		
82	55.7	45.0	67.4
119	33.1	25.8	38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002920.D

Acq: 27 Jun 2018 03:15

Instrument :

MSVOA_X

ClientSampleId :

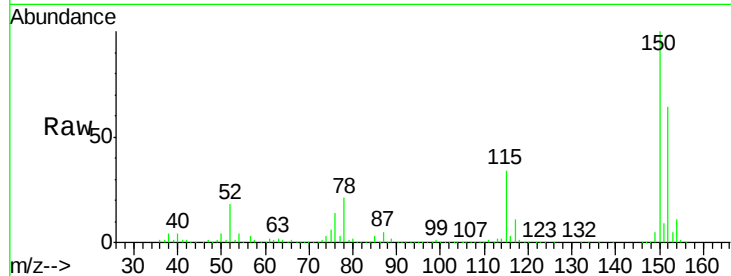
Tot Ion:152 Resp: 195311

Ion Ratio Lower Upper

152 100

115 54.7 40.1 120.2

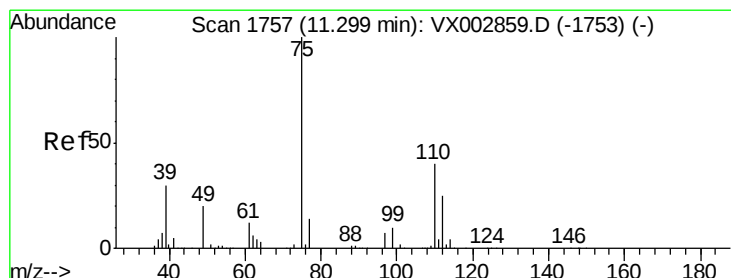
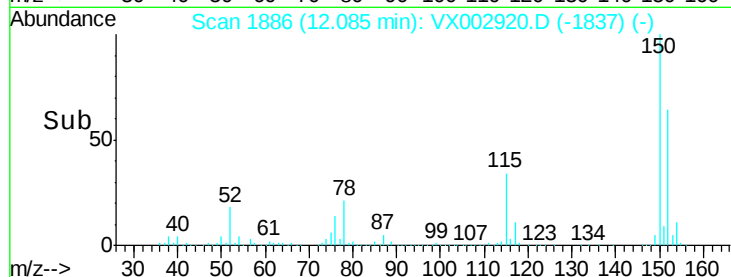
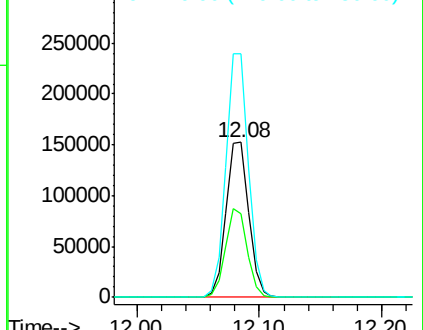
150 155.4 0.0 347.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 27.31 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002920.D

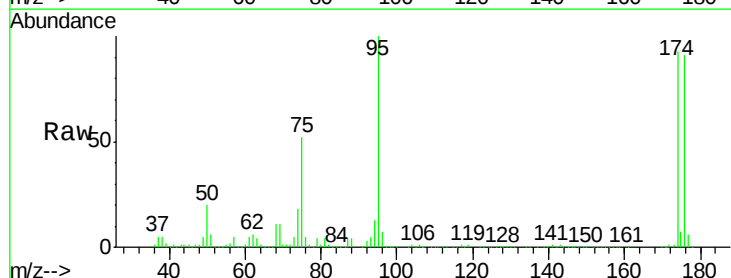
Acq: 27 Jun 2018 03:15

Tgt Ion: 75 Resp: 96606

Ion Ratio Lower Upper

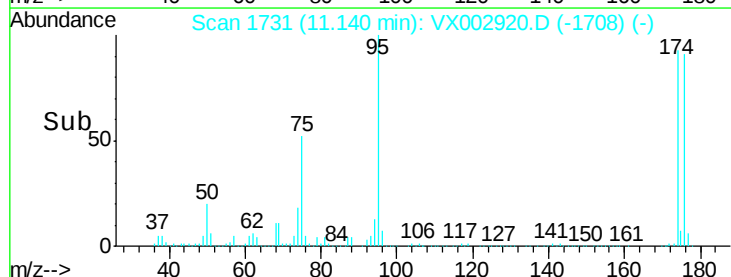
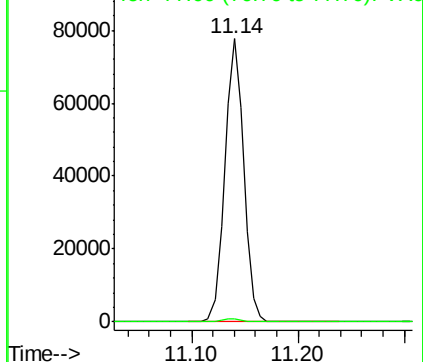
75 100

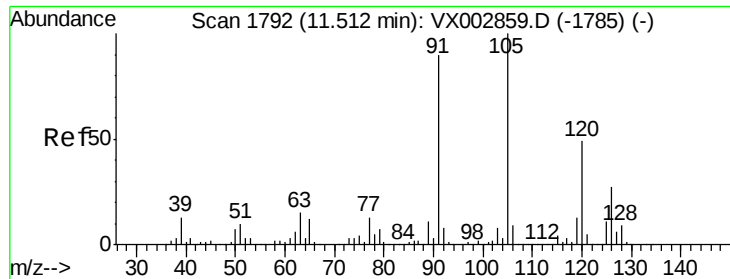
77 1.3 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

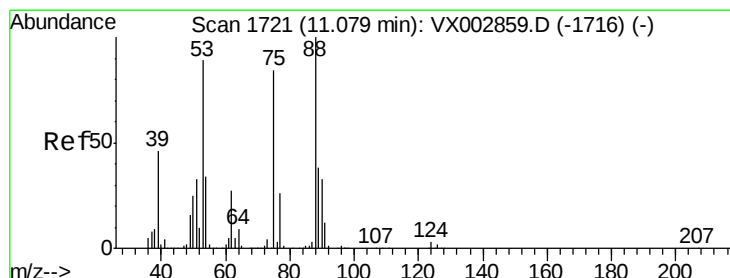
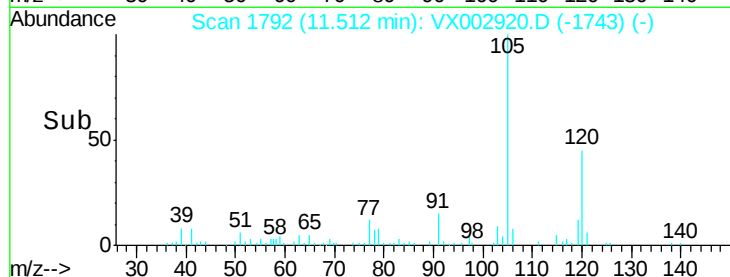
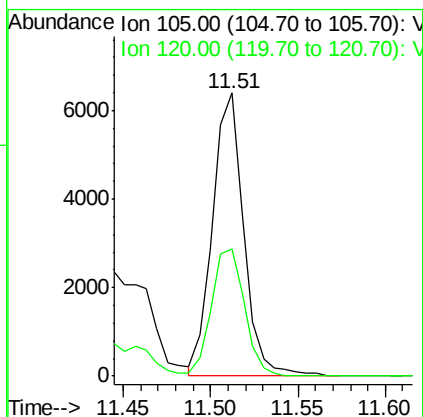
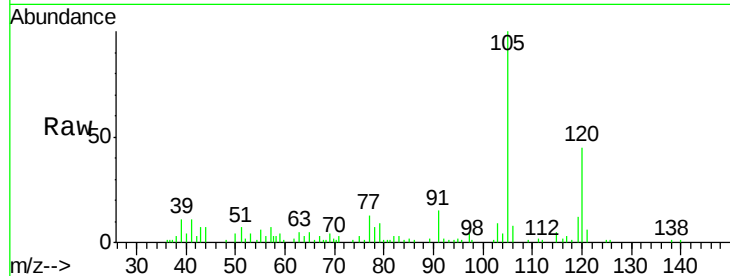




#80
 1,3,5-Trimethylbenzene
 Concen: 0.72 ug/l
 RT: 11.51 min Scan# 1792
 Delta R.T. -0.00 min
 Lab File: VX002920.D
 Acq: 27 Jun 2018 03:15

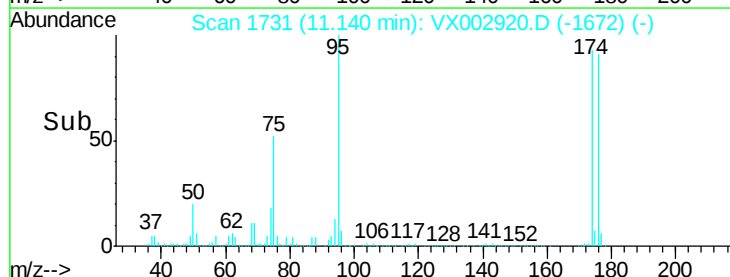
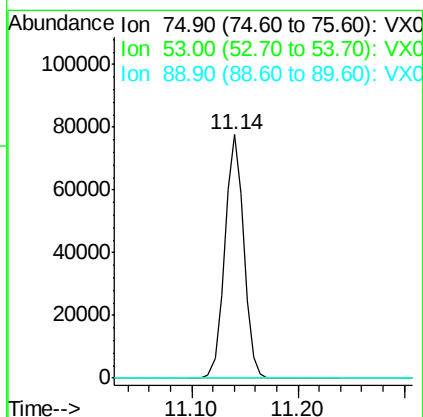
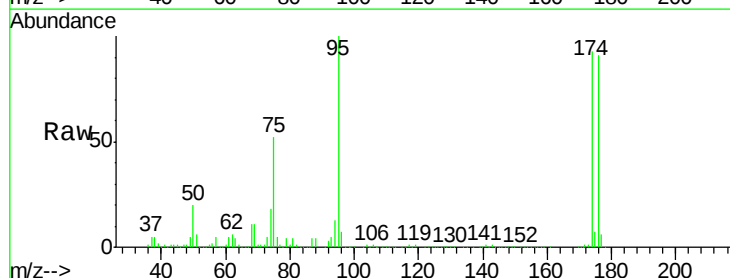
Instrument :
 MSVOA_X
 ClientSampleId :

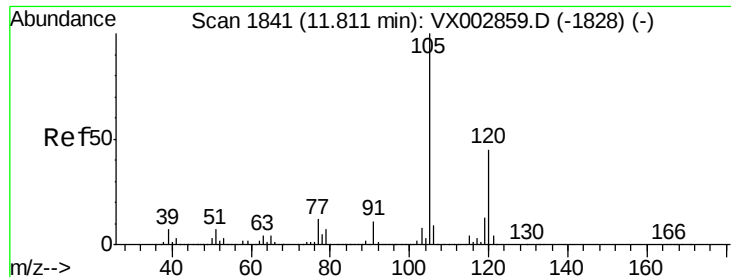
Tot Ion:105 Resp: 7961
 Ion Ratio Lower Upper
 105 100
 120 47.5 24.4 73.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 77.26 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002920.D
 Acq: 27 Jun 2018 03:15

Tgt Ion: 75 Resp: 96606
 Ion Ratio Lower Upper
 75 100
 53 0.3 86.8 130.2#
 89 0.0 38.2 57.2#





#84

1,2,4-Trimethylbenzene

Concen: 1.62 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. -0.00 min

Lab File: VX002920.D

Acq: 27 Jun 2018 03:15

Instrument :

MSVOA_X

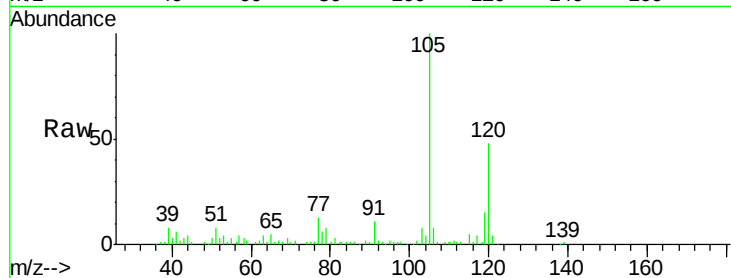
ClientSampleId :

Tot Ion:105 Resp: 18526

Ion Ratio Lower Upper

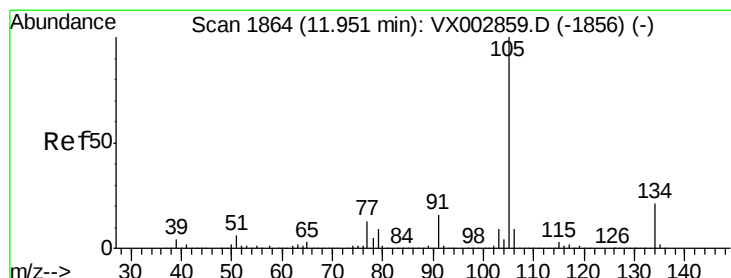
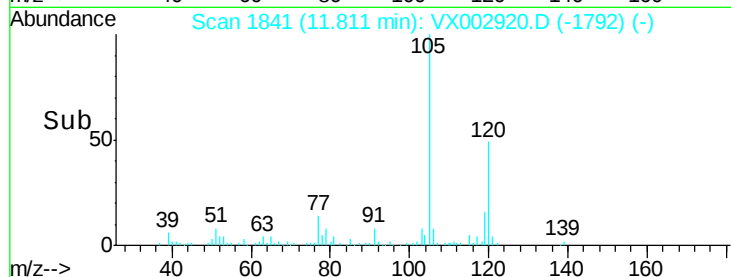
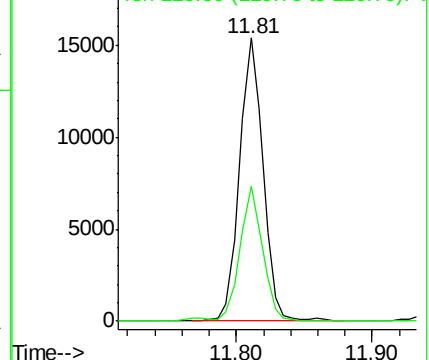
105 100

120 46.3 22.3 66.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 0.22 ug/l

RT: 11.95 min Scan# 1864

Delta R.T. -0.00 min

Lab File: VX002920.D

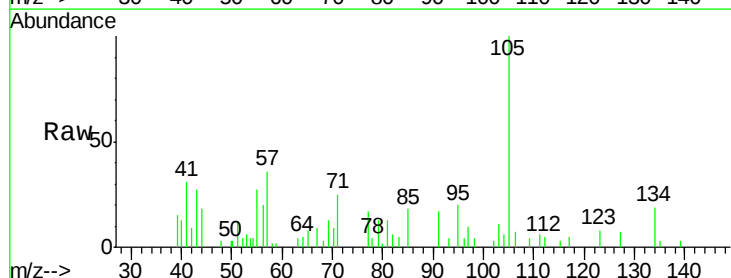
Acq: 27 Jun 2018 03:15

Tgt Ion:105 Resp: 2886

Ion Ratio Lower Upper

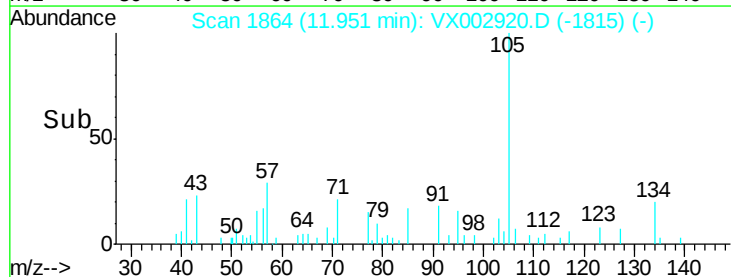
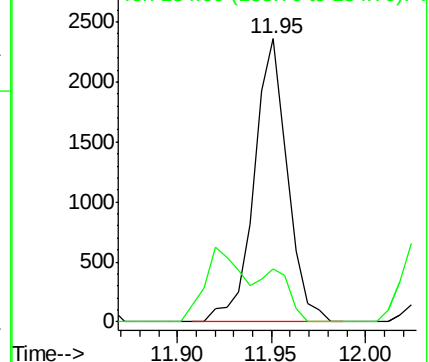
105 100

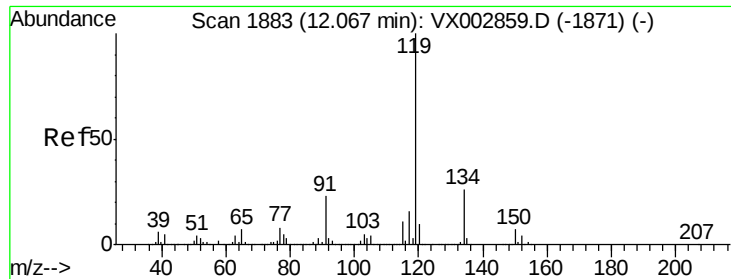
134 0.0 10.4 31.1#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

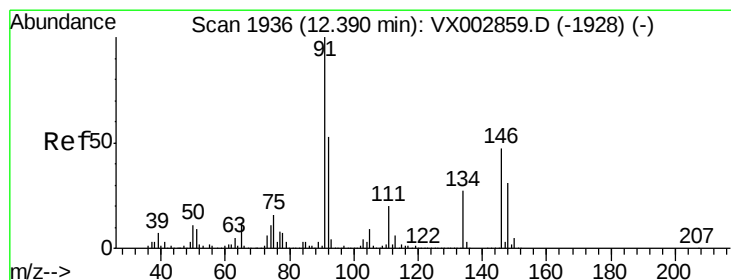
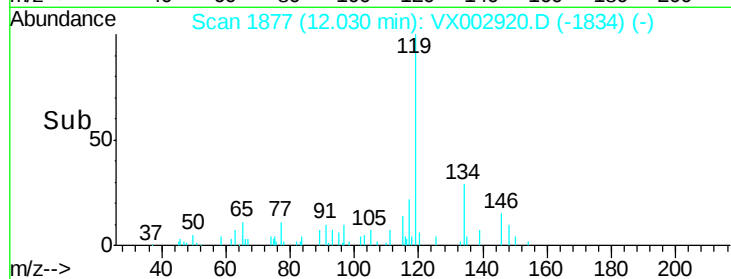
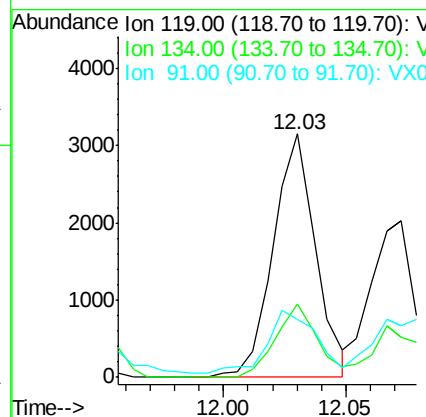
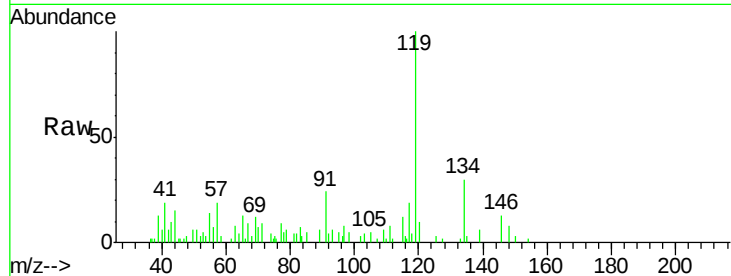




#86
p-Isopropyltoluene
Concen: 0.32 ug/l
RT: 12.03 min Scan# 1877
Delta R.T. -0.04 min
Lab File: VX002920.D
Acq: 27 Jun 2018 03:15

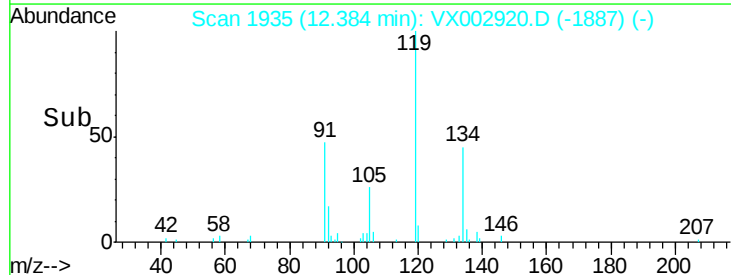
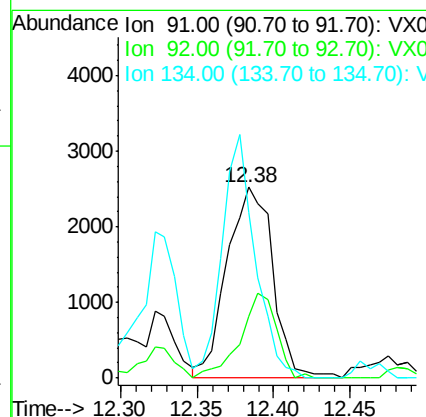
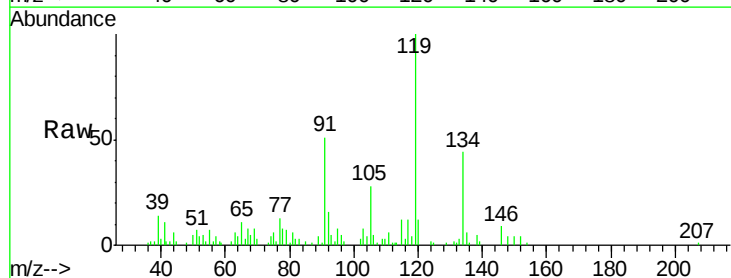
Instrument :
MSVOA_X
ClientSampleId :

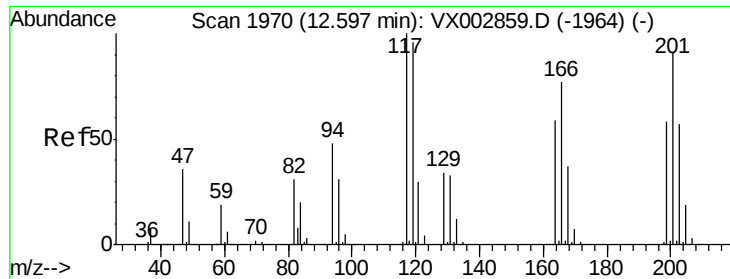
Tot Ion:119 Resp: 3785
Ion Ratio Lower Upper
119 100
134 29.8 13.4 40.1
91 29.0 11.9 35.7



#89
n-Butylbenzene
Concen: 0.51 ug/l
RT: 12.38 min Scan# 1935
Delta R.T. -0.01 min
Lab File: VX002920.D
Acq: 27 Jun 2018 03:15

Tgt Ion: 91 Resp: 5250
Ion Ratio Lower Upper
91 100
92 35.1 26.0 78.0
134 92.1 13.5 40.5#





#90

Hexachloroethane

Concen: 0.74 ug/l

RT: 12.61 min Scan# 1972

Delta R.T. 0.01 min

Lab File: VX002920.D

Acq: 27 Jun 2018 03:15

Instrument :

MSVOA_X

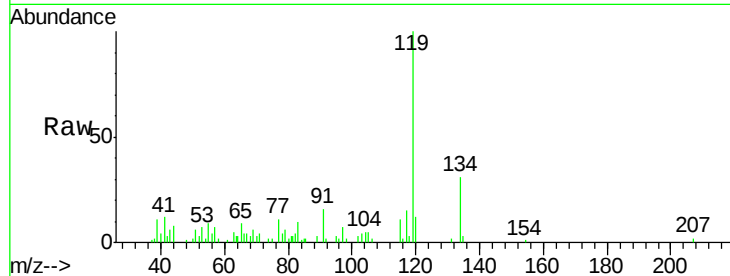
ClientSampleId :

Tot Ion:117 Resp: 1318

Ion Ratio Lower Upper

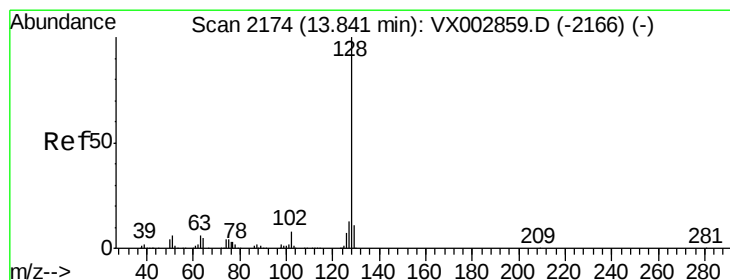
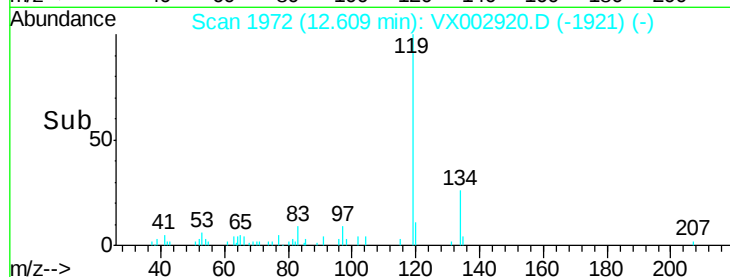
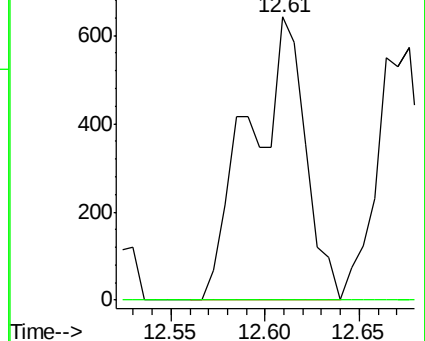
117 100

201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 0.49 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX002920.D

Acq: 27 Jun 2018 03:15

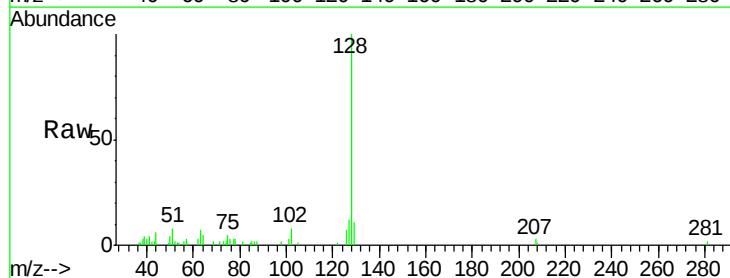
Tgt Ion:128 Resp: 6491

Ion Ratio Lower Upper

128 100

127 14.1 10.4 15.6

129 11.2 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

