

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052718\
 Data File : VX002081.D
 Acq On : 27 May 2018 20:51
 Operator : JC/MD
 Sample : J3128-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 29 03:01:46 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X052418W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 24 13:09:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	302227	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	414716	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	375005	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	205581	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	196216	36.32	ug/l	0.00
Spiked Amount			Recovery	=	72.64%	
35) Dibromofluoromethane	5.51	113	150240	36.23	ug/l	0.00
Spiked Amount			Recovery	=	72.46%	
50) Toluene-d8	8.72	98	593215	39.51	ug/l	0.00
Spiked Amount			Recovery	=	79.02%	
62) 4-Bromofluorobenzene	11.14	95	208837	35.55	ug/l	0.00
Spiked Amount			Recovery	=	71.10%	

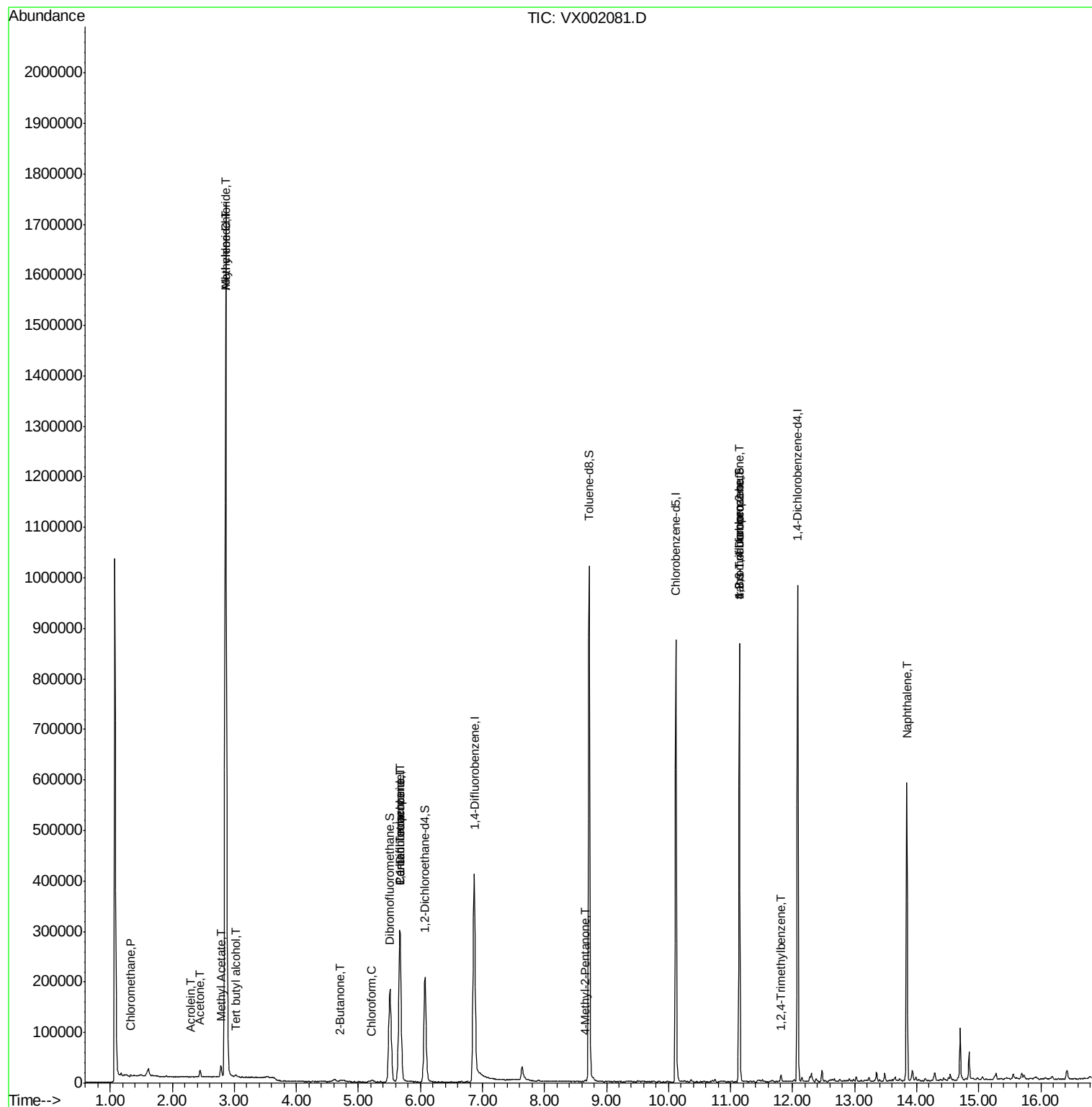
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.25	85	20	Below Cal	#	41
3) Chloromethane	1.33	50	2440	0.52	ug/l	92
5) Bromomethane	1.65	94	158	Below Cal		86
11) Tert butyl alcohol	3.03	59	2225	2.10	ug/l	# 76
13) Acrolein	2.30	56	127	0.28	ug/l	# 18
14) Allyl chloride	2.86	41	30048	4.06	ug/l	# 26
16) Acetone	2.45	43	15161	7.27	ug/l	97
18) Methyl Acetate	2.78	43	25635	4.06	ug/l	95
20) Methylene Chloride	2.86	84	783154	222.70	ug/l	98
21) trans-1,2-Dichloroethene	3.17	96	466	Below Cal	#	13
25) 2-Butanone	4.70	43	4178	1.09	ug/l	100
28) Bromochloromethane	4.99	49	19	Below Cal	#	8
30) Chloroform	5.21	83	3605	0.45	ug/l	98
36) 1,1-Dichloropropene	5.66	75	21422	3.71	ug/l	# 52
38) Carbon Tetrachloride	5.67	117	27583	4.10	ug/l	# 15
41) Methacrylonitrile	5.09	41	127	Below Cal	#	62
51) 4-Methyl-2-Pentanone	8.65	43	2411	0.32	ug/l	97
74) N-amyl acetate	6.49	43	480	Below Cal	#	60
75) 1,1,2,2-Tetrachloroethane	11.27	83	34	Below Cal	#	25
76) 1,2,3-Trichloropropane	11.14	75	110464	22.37	ug/l	# 33
79) 2-Chlorotoluene	11.42	91	217	Below Cal	#	40
81) trans-1,4-Dichloro-2-buten	11.14	75	110464	53.77	ug/l	# 10
84) 1,2,4-Trimethylbenzene	11.81	105	5389	0.35	ug/l	96
95) Naphthalene	13.84	128	371529	20.01	ug/l	100

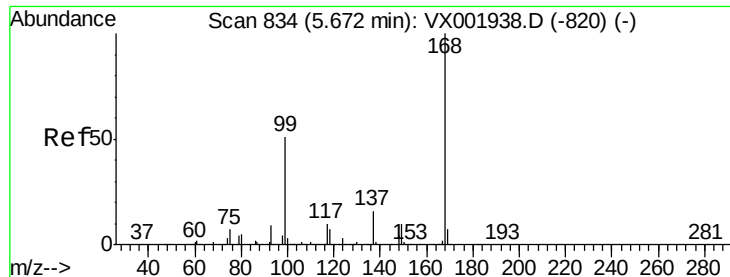
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: May 29 03:01:46 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X052418W.M
Quant Title : SW846 8260
QLast Update : Thu May 24 13:09:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002081.D

Acq: 27 May 2018 20:51

Instrument :

MSVOA_X

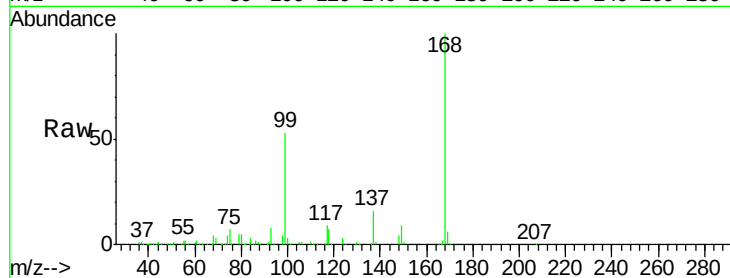
ClientSampleId :

Tot Ion:168 Resp: 302227

Ion Ratio Lower Upper

168 100

99 52.9 41.0 61.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

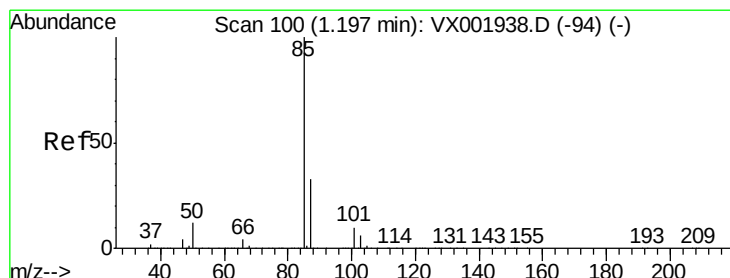
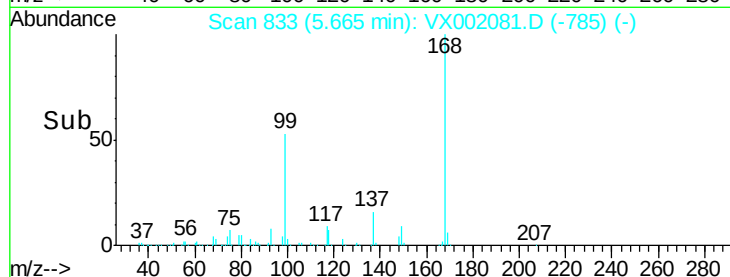
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.25 min Scan# 109

Delta R.T. 0.06 min

Lab File: VX002081.D

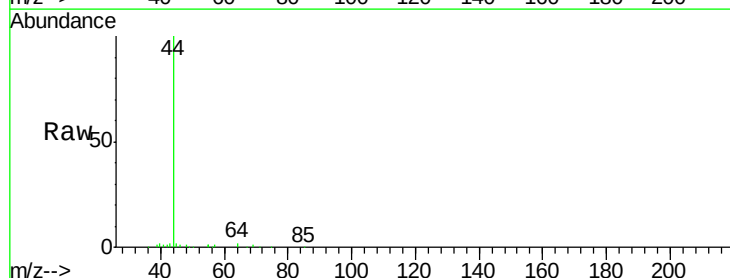
Acq: 27 May 2018 20:51

Tgt Ion: 85 Resp: 20

Ion Ratio Lower Upper

85 100

87 0.0 16.7 50.0#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.25

60

50

40

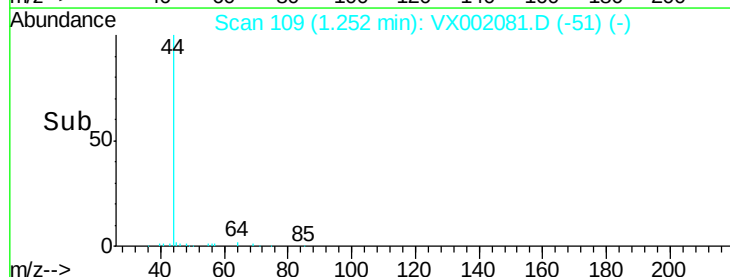
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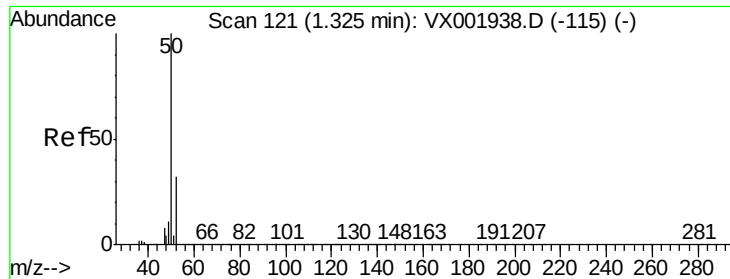
20

10

0

Time--> 1.23 1.24 1.25 1.26 1.27





#3

Chloromethane

Concen: 0.52 ua/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002081.D

Acq: 27 May 2018 20:51

Instrument :

MSVOA_X

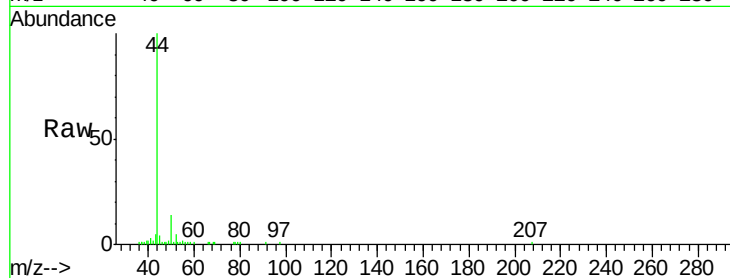
ClientSampleId :

Tot Ion: 50 Resp: 2440

Ion Ratio Lower Upper

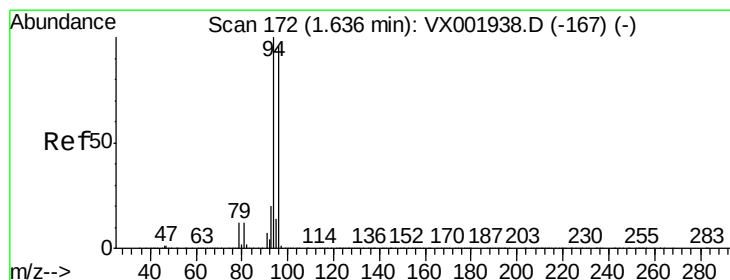
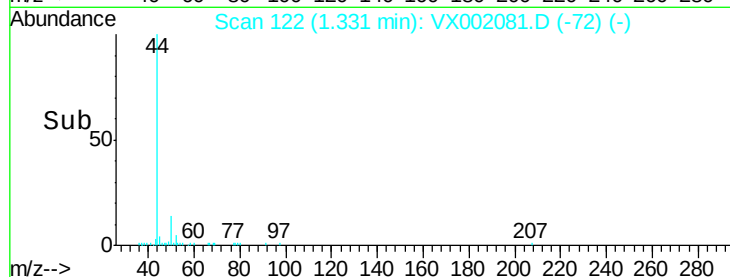
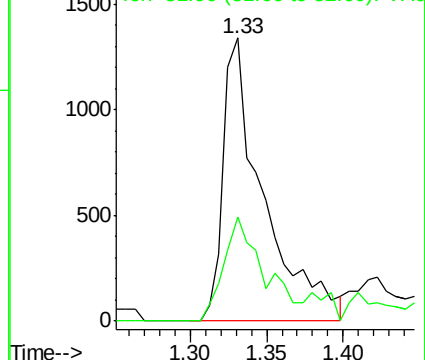
50 100

52 36.8 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002081.D

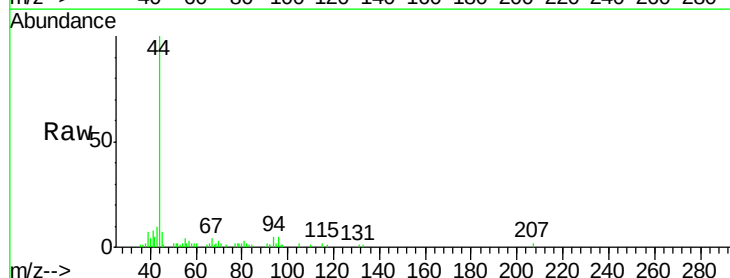
Acq: 27 May 2018 20:51

Tgt Ion: 94 Resp: 158

Ion Ratio Lower Upper

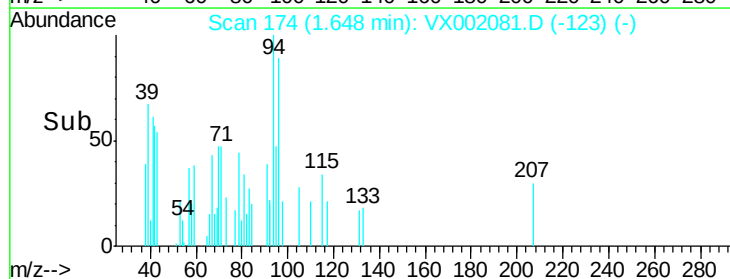
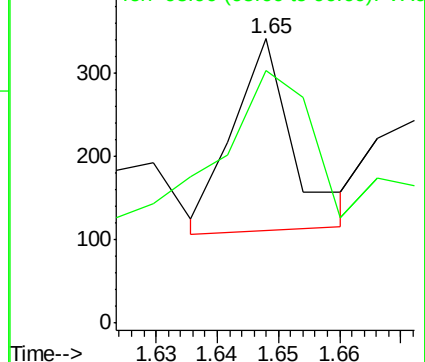
94 100

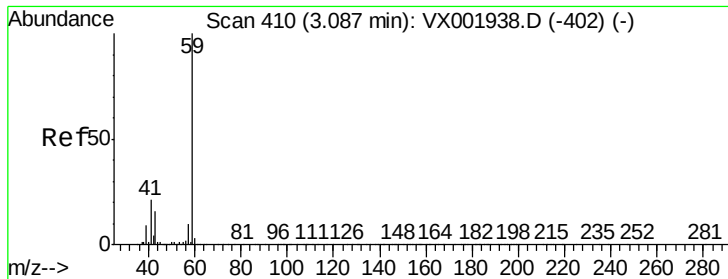
96 81.7 75.9 113.9



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



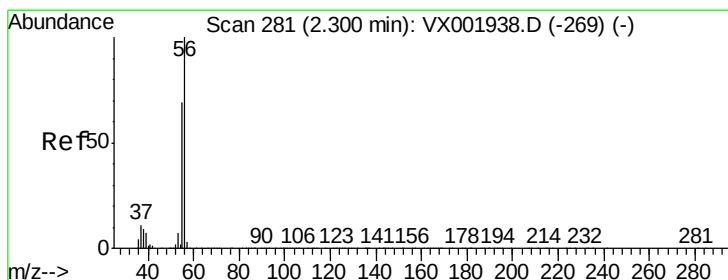
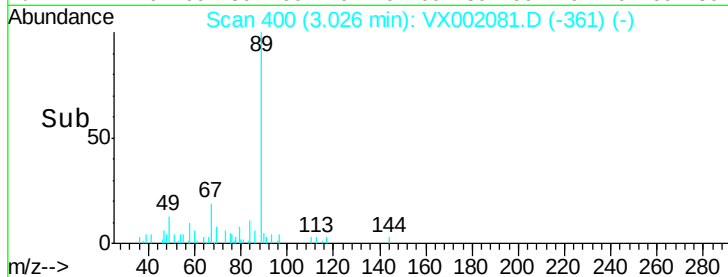
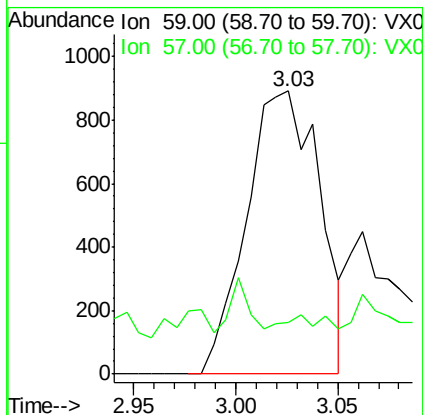
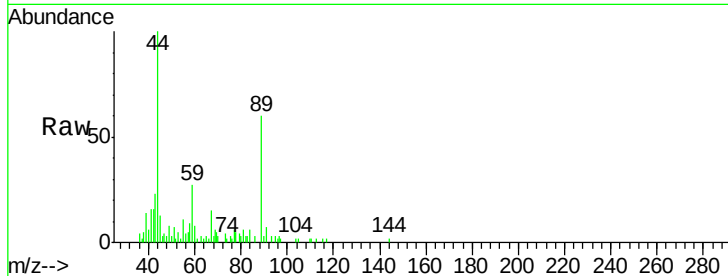


#11

Tert butyl alcohol
 Concen: 2.10 ug/l
 RT: 3.03 min Scan# 400
 Delta R.T. -0.06 min
 Lab File: VX002081.D
 Acq: 27 May 2018 20:51

Instrument :
 MSVOA_X
 ClientSampleId :

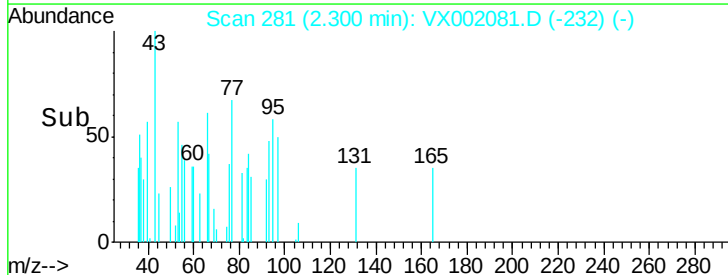
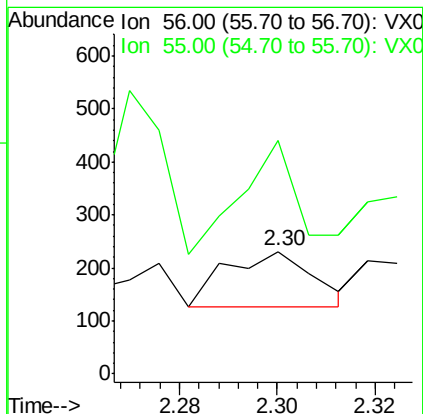
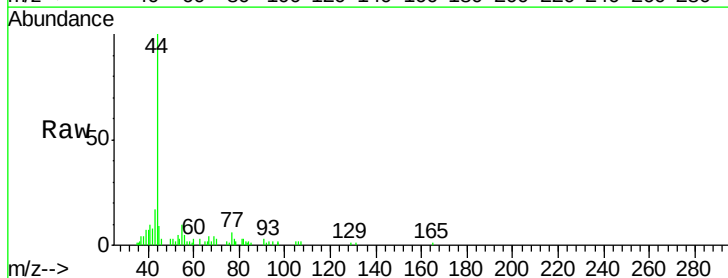
Tot Ion: 59 Resp: 2225
 Ion Ratio Lower Upper
 59 100
 57 2.0 8.9 13.3#

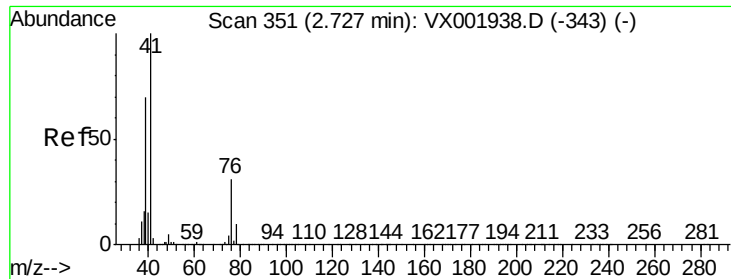


#13

Acrolein
 Concen: 0.28 ug/l
 RT: 2.30 min Scan# 281
 Delta R.T. -0.00 min
 Lab File: VX002081.D
 Acq: 27 May 2018 20:51

Tgt Ion: 56 Resp: 127
 Ion Ratio Lower Upper
 56 100
 55 138.6 56.8 85.2#

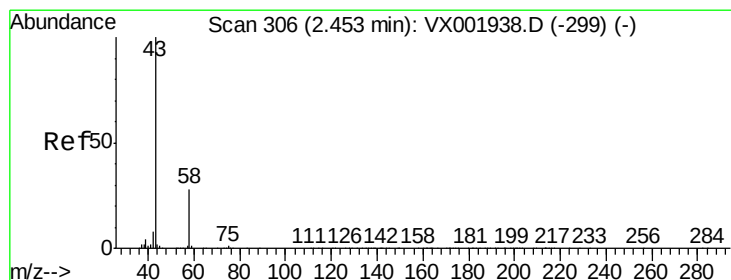
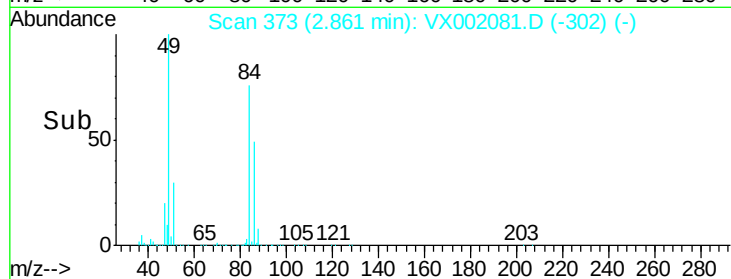
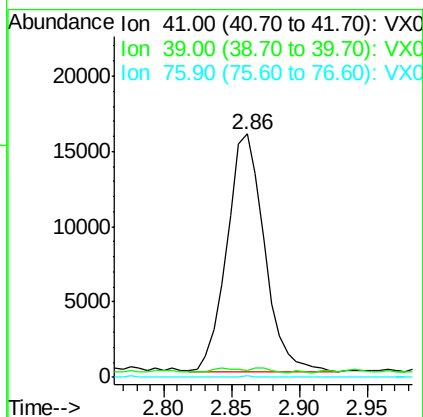
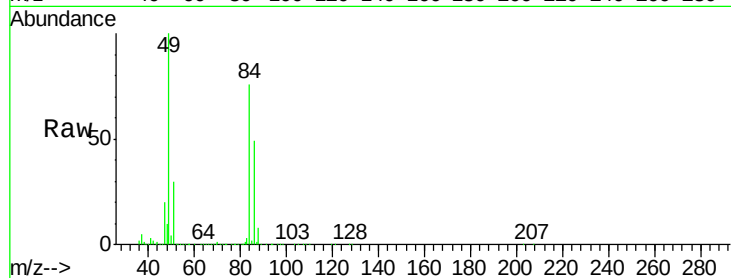




#14
Allvl chloride
Concen: 4.06 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.13 min
Lab File: VX002081.D
Acq: 27 May 2018 20:51

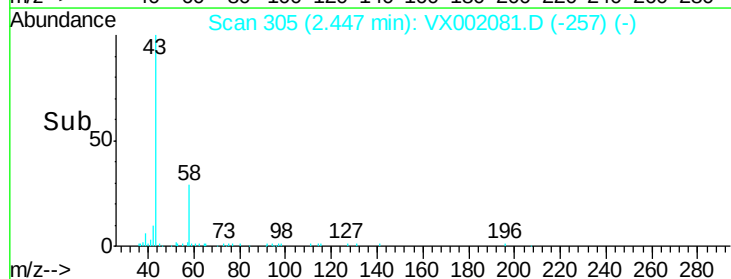
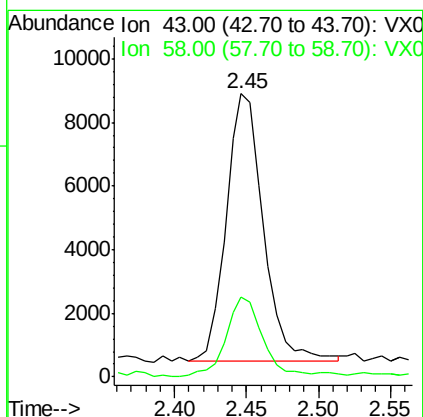
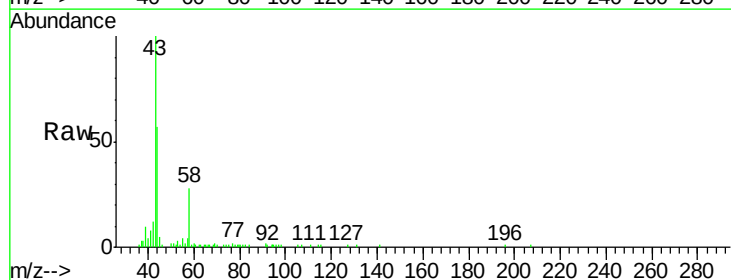
Instrument :
MSVOA_X
ClientSampleId :

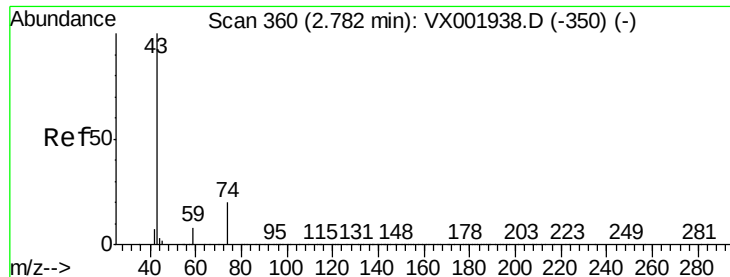
Tot Ion: 41 Resp: 30048
Ion Ratio Lower Upper
41 100
39 1.0 54.3 81.5#
76 0.3 24.2 36.4#



#16
Acetone
Concen: 7.27 ug/l
RT: 2.45 min Scan# 305
Delta R.T. -0.01 min
Lab File: VX002081.D
Acq: 27 May 2018 20:51

Tgt Ion: 43 Resp: 15161
Ion Ratio Lower Upper
43 100
58 29.2 22.3 33.5

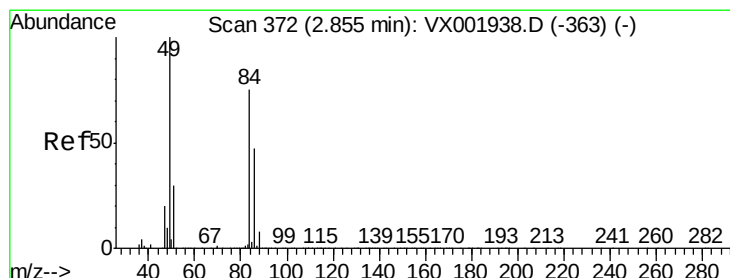
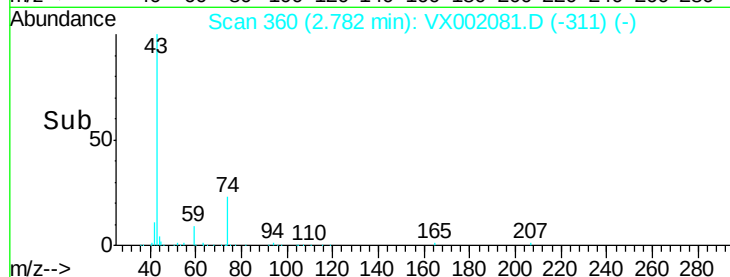
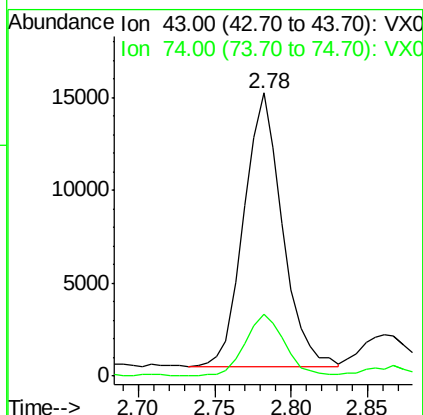
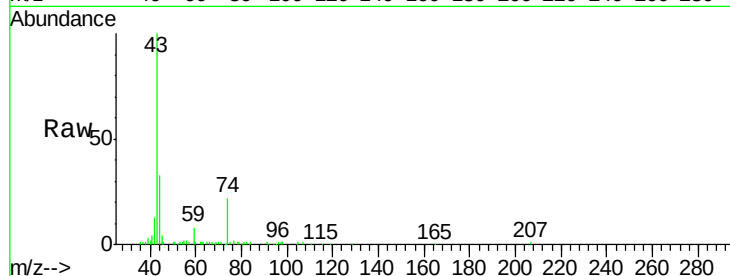




#18
Methvl Acetate
Concen: 4.06 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX002081.D
Acq: 27 May 2018 20:51

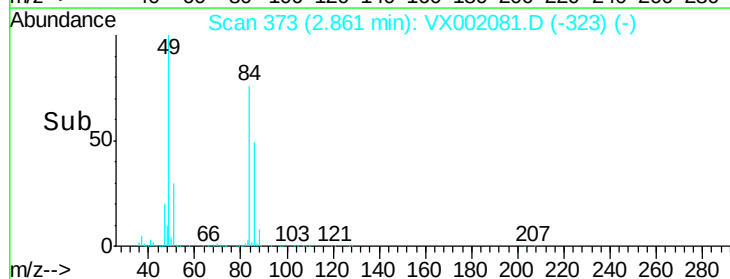
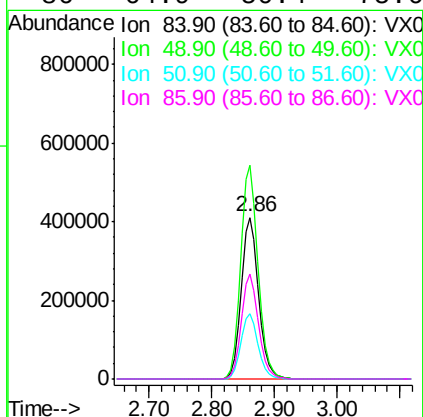
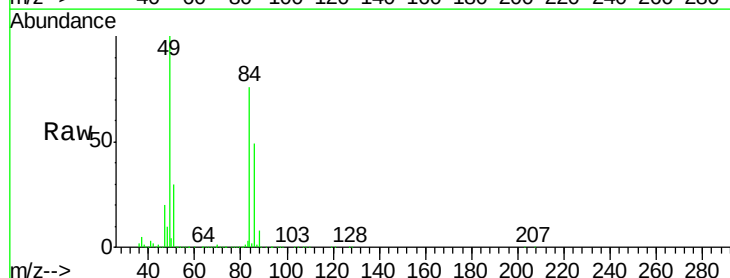
Instrument :
MSVOA_X
ClientSampleId :

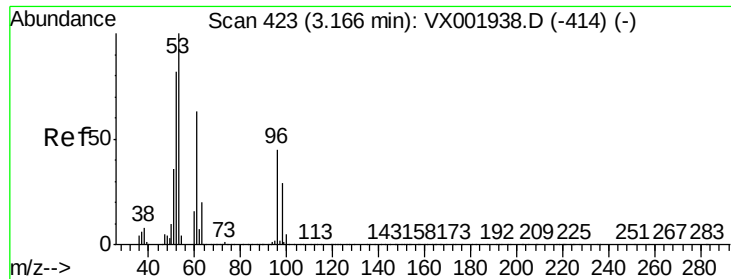
Tot Ion: 43 Resp: 25635
Ion Ratio Lower Upper
43 100
74 23.2 16.8 25.2



#20
Methylene Chloride
Concen: 222.70 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX002081.D
Acq: 27 May 2018 20:51

Tgt Ion: 84 Resp: 783154
Ion Ratio Lower Upper
84 100
49 132.3 107.2 160.8
51 40.2 32.4 48.6
86 64.9 50.4 75.6





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 3.17 min Scan# 424

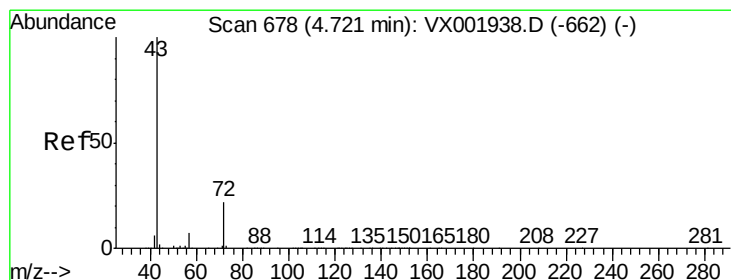
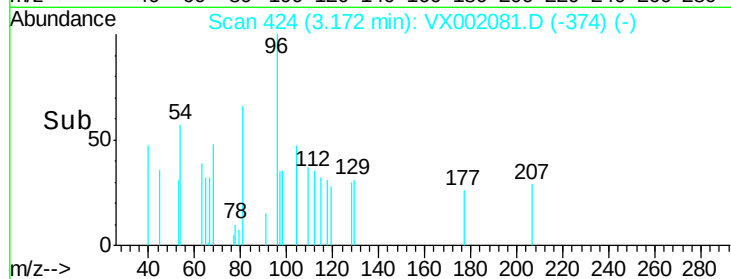
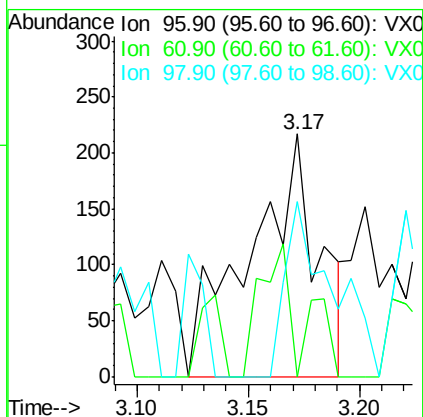
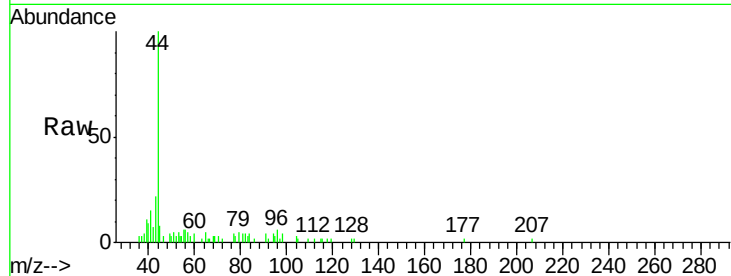
Delta R.T. 0.01 min

Lab File: VX002081.D

Acq: 27 May 2018 20:51

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 96 Resp: 466
Ion Ratio Lower Upper
96 100
61 0.0 113.3 169.9#
98 44.2 51.7 77.5#



#25

2-Butanone

Concen: 1.09 ug/l

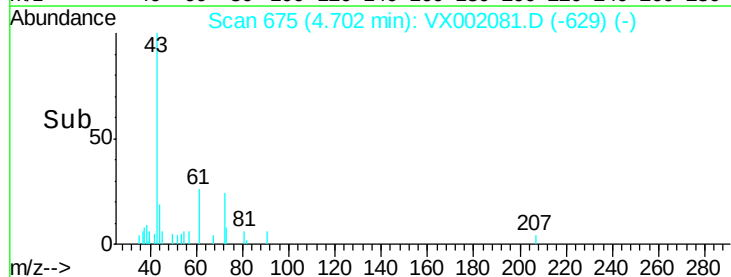
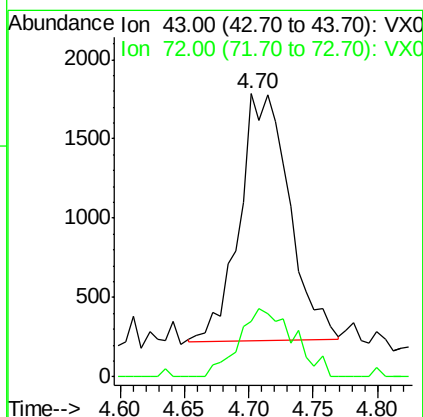
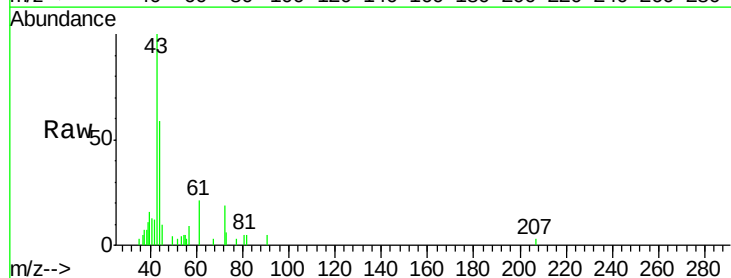
RT: 4.70 min Scan# 675

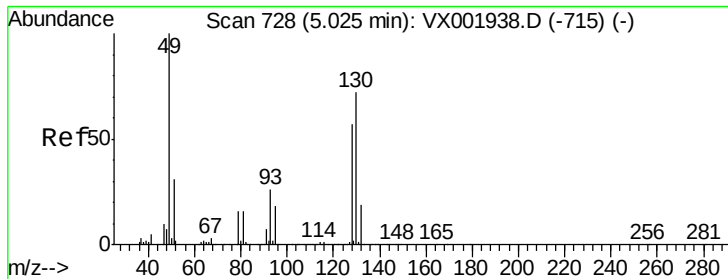
Delta R.T. -0.02 min

Lab File: VX002081.D

Acq: 27 May 2018 20:51

Tgt Ion: 43 Resp: 4178
Ion Ratio Lower Upper
43 100
72 22.4 17.9 26.9





#28

Bromochloromethane

Concen: Below Cal

RT: 4.99 min Scan# 723

Delta R.T. -0.03 min

Lab File: VX002081.D

Acq: 27 May 2018 20:51

Instrument :

MSVOA_X

ClientSampleId :

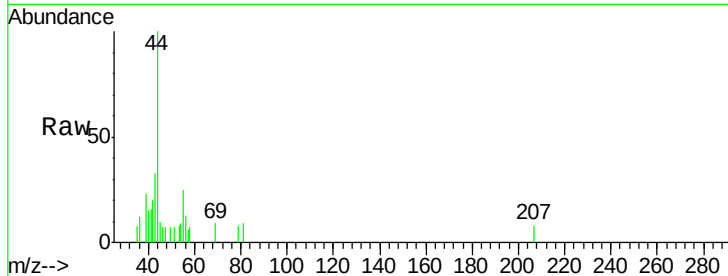
Tot Ion: 49 Resp: 19

Ion Ratio Lower Upper

49 100

129 100.0 0.0 3.8#

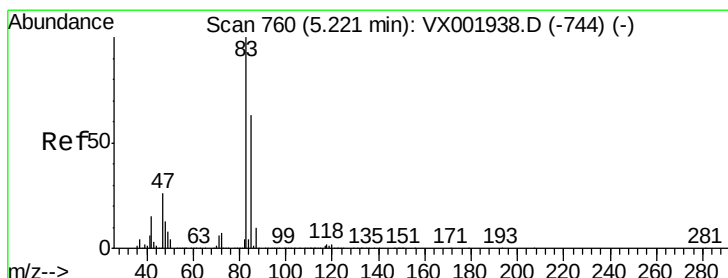
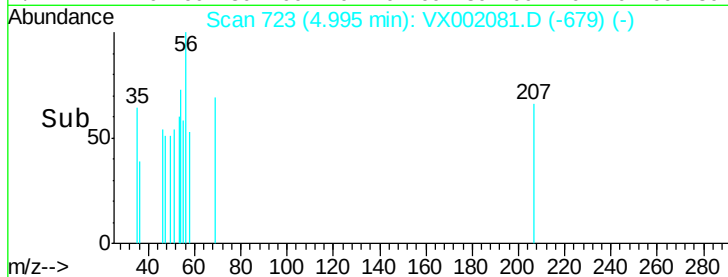
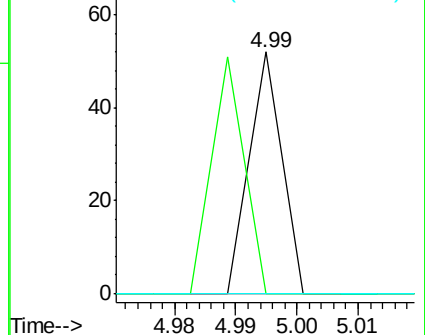
130 0.0 59.4 89.2#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#30

Chloroform

Concen: 0.45 ug/l

RT: 5.21 min Scan# 759

Delta R.T. -0.01 min

Lab File: VX002081.D

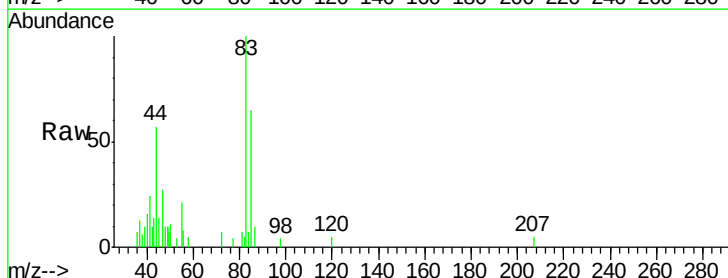
Acq: 27 May 2018 20:51

Tgt Ion: 83 Resp: 3605

Ion Ratio Lower Upper

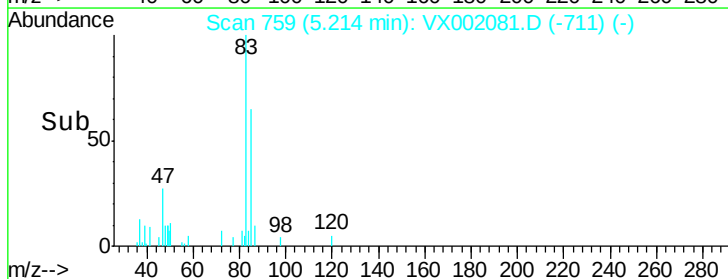
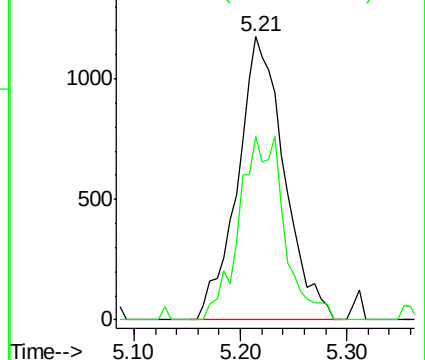
83 100

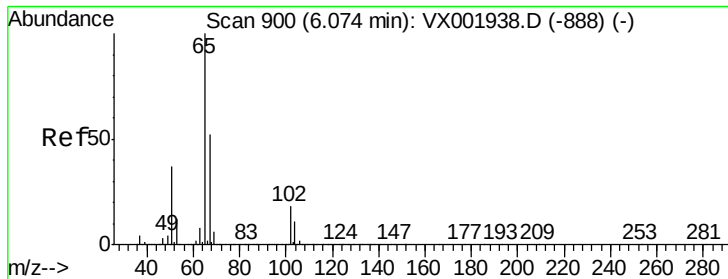
85 64.9 50.9 76.3



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

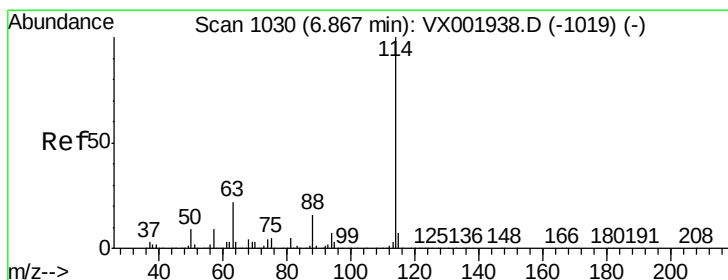
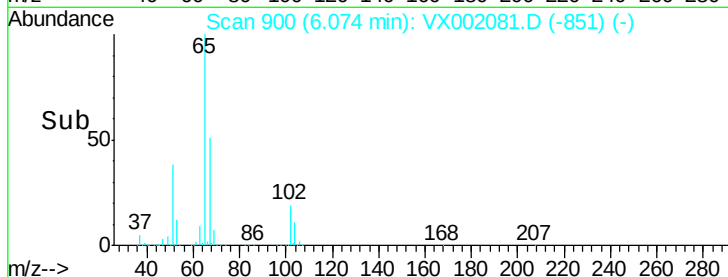
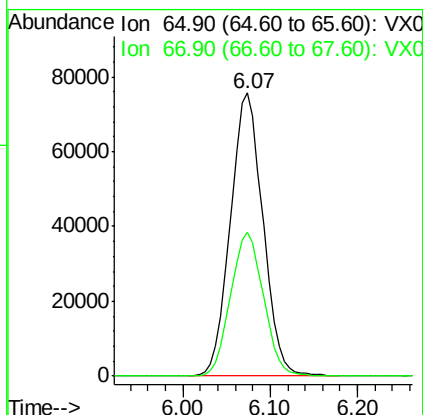
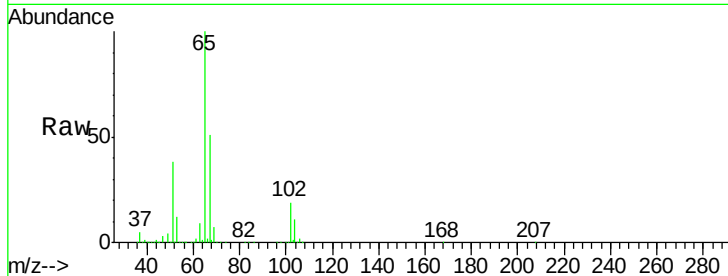




#33
 1,2-Dichloroethane-d4
 Concen: 36.32 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VX002081.D
 Acq: 27 May 2018 20:51

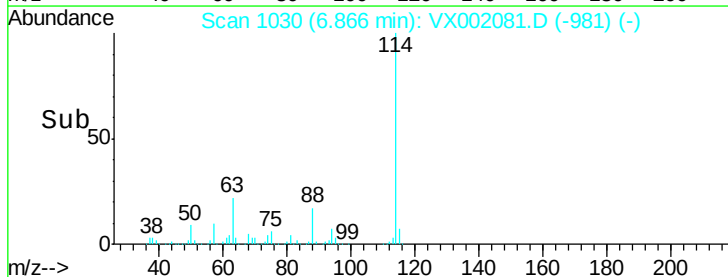
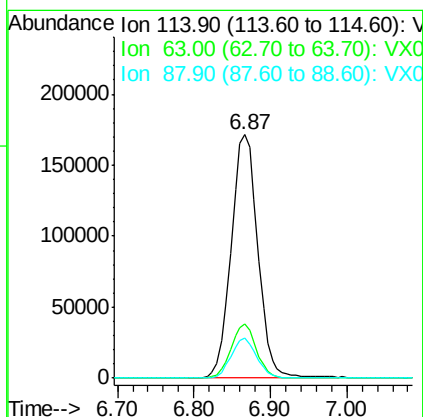
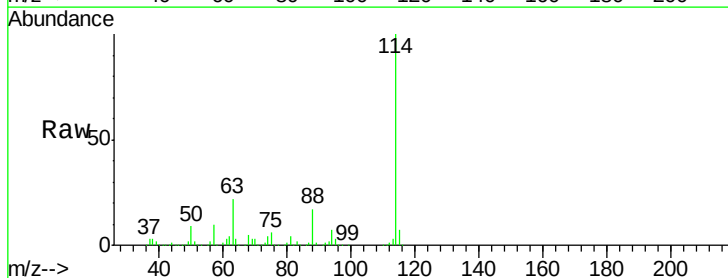
Instrument :
 MSVOA_X
 ClientSampleId :

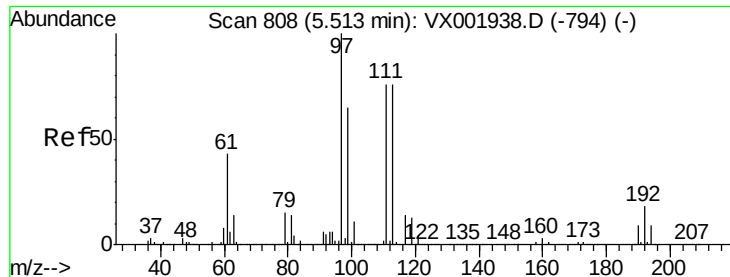
Tot Ion: 65 Resp: 196216
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002081.D
 Acq: 27 May 2018 20:51

Tgt Ion: 114 Resp: 414716
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 43.2
 88 16.5 0.0 31.6





#35

Dibromofluoromethane

Concen: 36.23 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX002081.D

Acq: 27 May 2018 20:51

Instrument :

MSVOA_X

ClientSampleId :

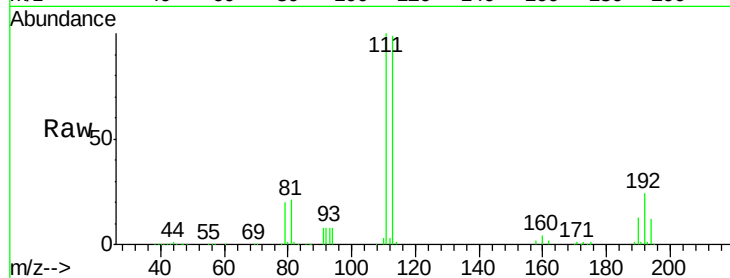
Tot Ion:113 Resp: 150240

Ion Ratio Lower Upper

113 100

111 102.7 82.0 123.0

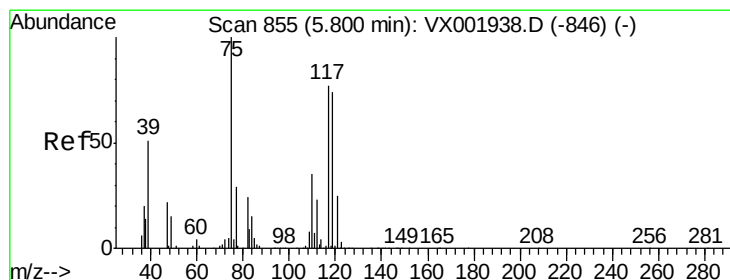
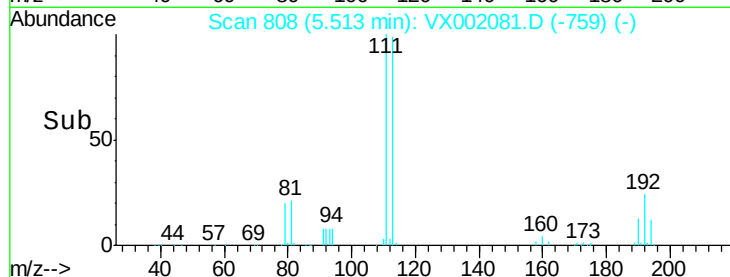
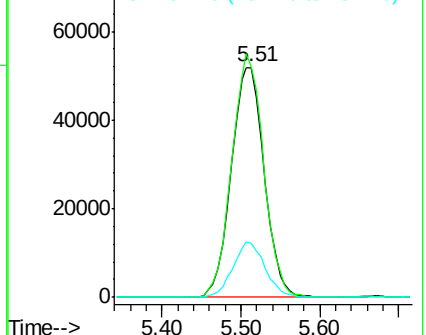
192 23.6 18.9 28.3



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 3.71 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.14 min

Lab File: VX002081.D

Acq: 27 May 2018 20:51

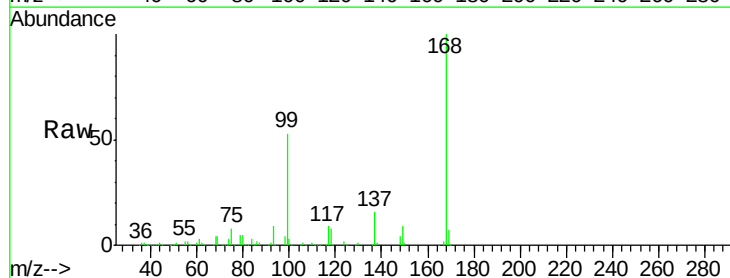
Tgt Ion: 75 Resp: 21422

Ion Ratio Lower Upper

75 100

110 10.2 17.4 52.2#

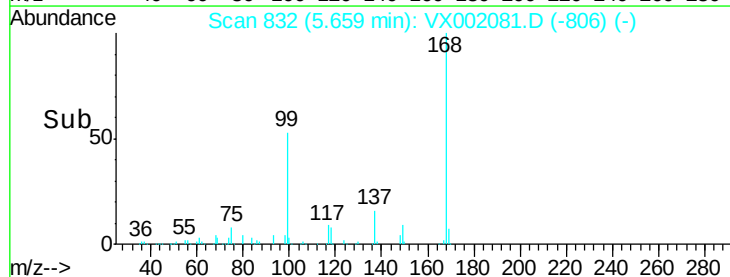
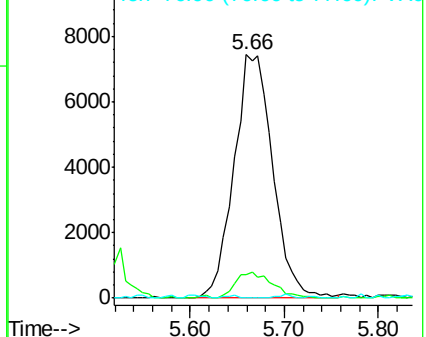
77 0.3 24.4 36.6#

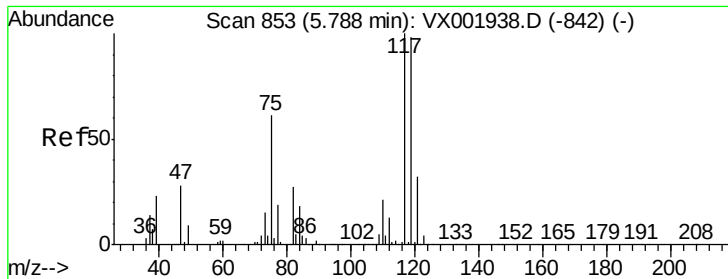


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 4.10 ua/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002081.D

Acq: 27 May 2018 20:51

Instrument :

MSVOA_X

ClientSampleId :

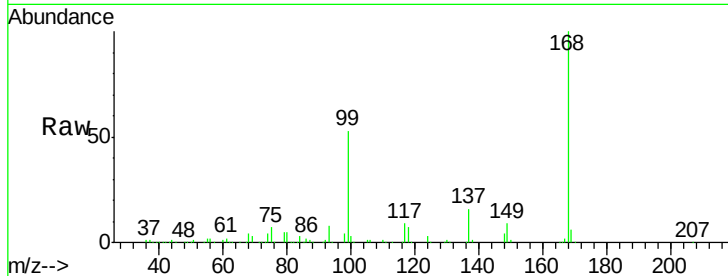
Tot Ion:117 Resp: 27583

Ion Ratio Lower Upper

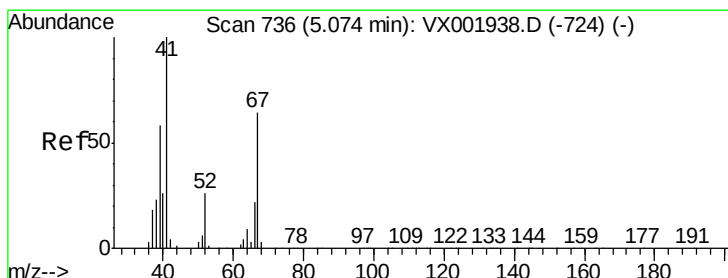
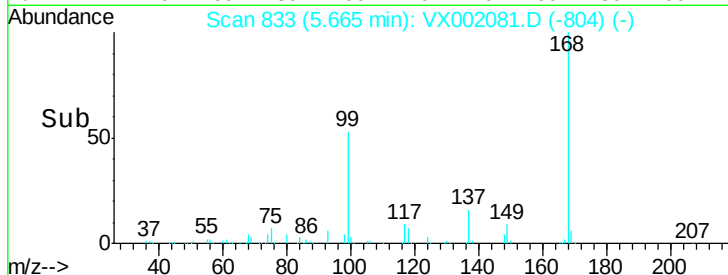
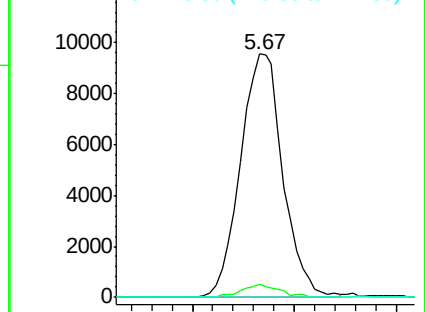
117 100

119 5.4 78.5 117.7#

121 0.0 25.5 38.3#



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



#41

Methacrylonitrile

Concen: Below Cal

RT: 5.09 min Scan# 738

Delta R.T. 0.01 min

Lab File: VX002081.D

Acq: 27 May 2018 20:51

Tgt Ion: 41 Resp: 127

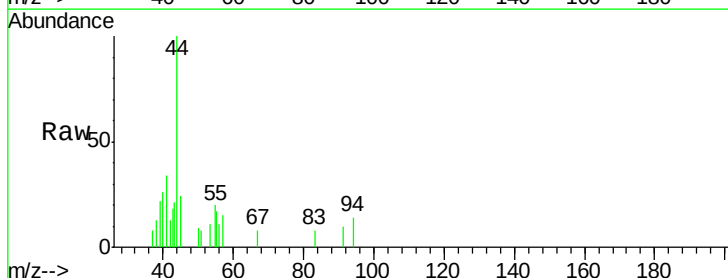
Ion Ratio Lower Upper

41 100

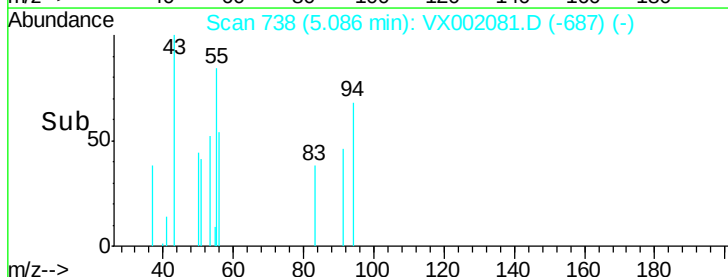
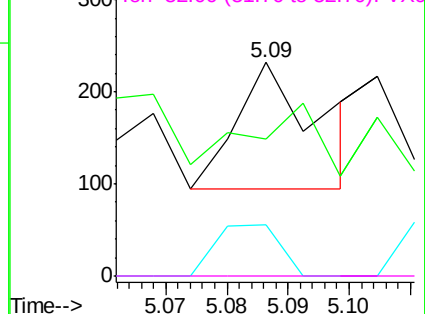
39 36.2 46.0 69.0#

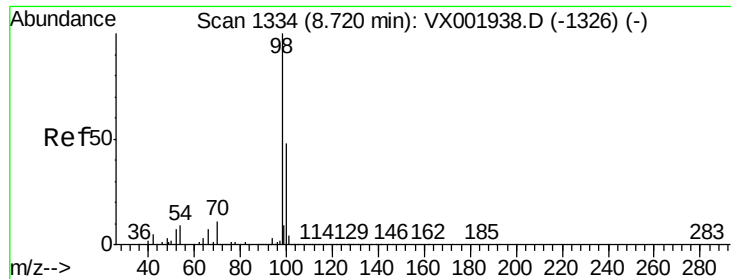
67 31.5 50.6 75.8#

52 0.0 21.9 32.9#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0
Ion 67.00 (66.70 to 67.70): VX0
Ion 52.00 (51.70 to 52.70): VX0

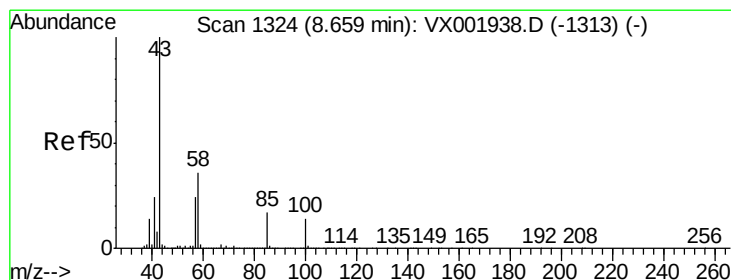
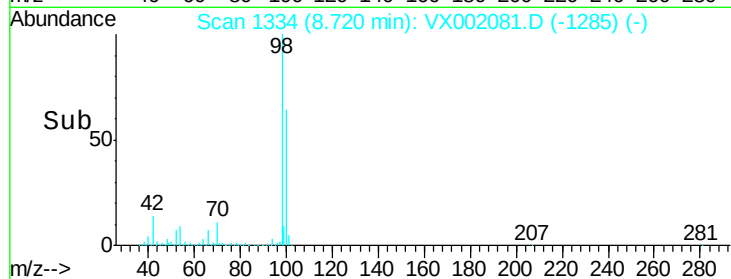
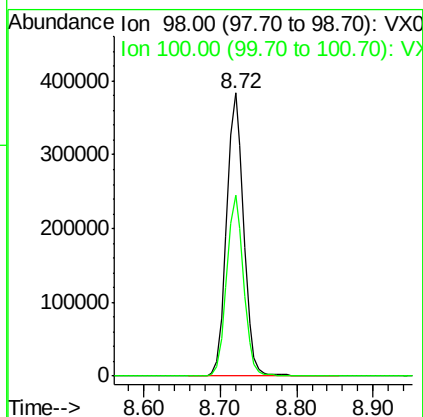
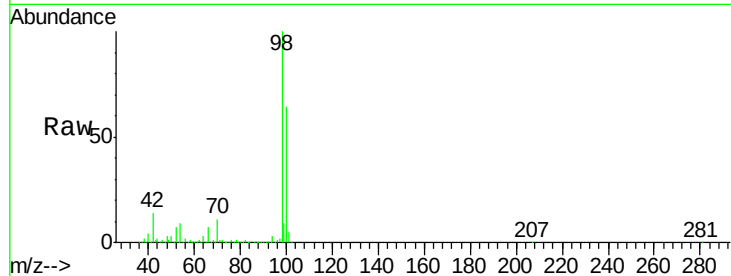




#50
Toluene-d8
Concen: 39.51 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002081.D
Acq: 27 May 2018 20:51

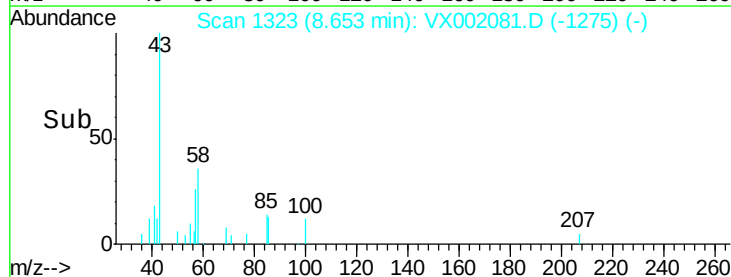
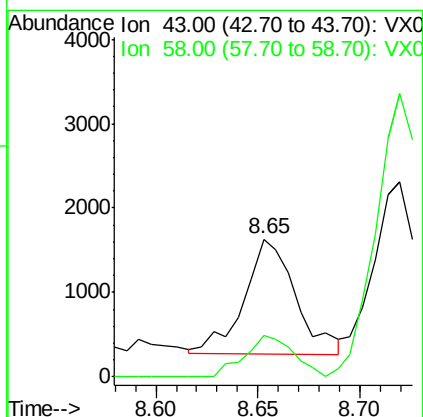
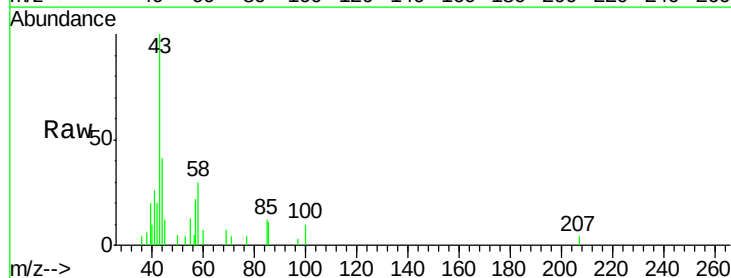
Instrument :
MSVOA_X
ClientSampleId :

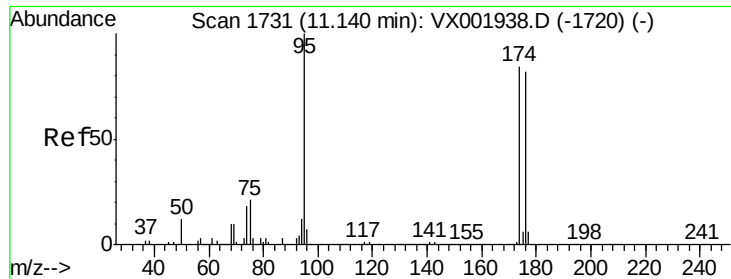
Tot Ion: 98 Resp: 593215
Ion Ratio Lower Upper
98 100
100 63.6 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 0.32 ug/l
RT: 8.65 min Scan# 1323
Delta R.T. -0.01 min
Lab File: VX002081.D
Acq: 27 May 2018 20:51

Tgt Ion: 43 Resp: 2411
Ion Ratio Lower Upper
43 100
58 34.1 28.5 42.7

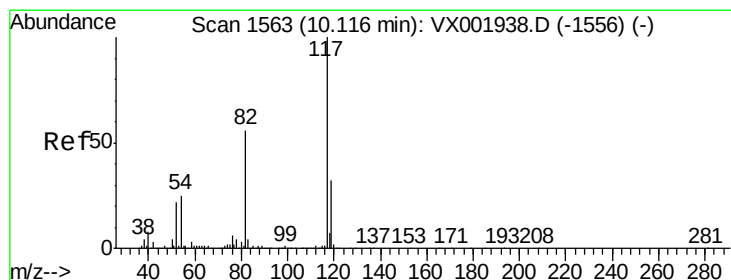
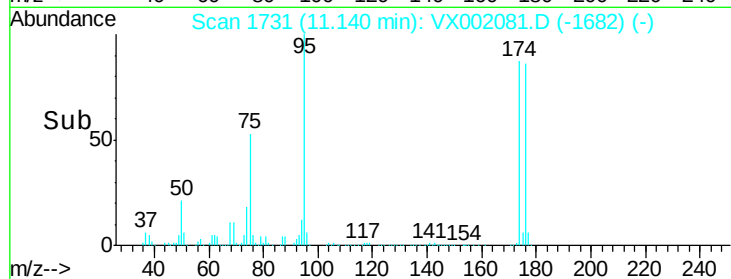
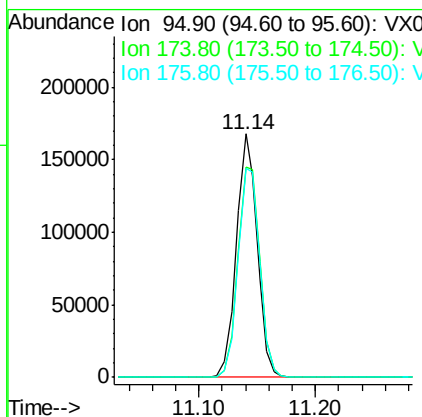
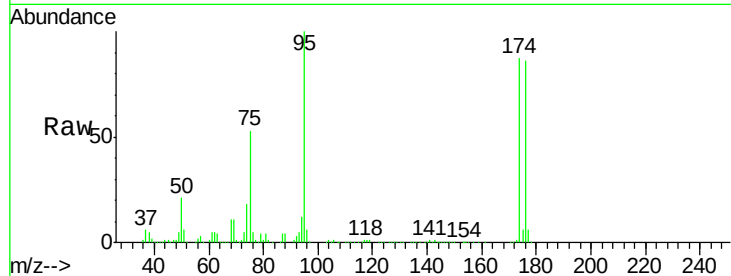




#62
4-Bromofluorobenzene
Concen: 35.55 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002081.D
Acq: 27 May 2018 20:51

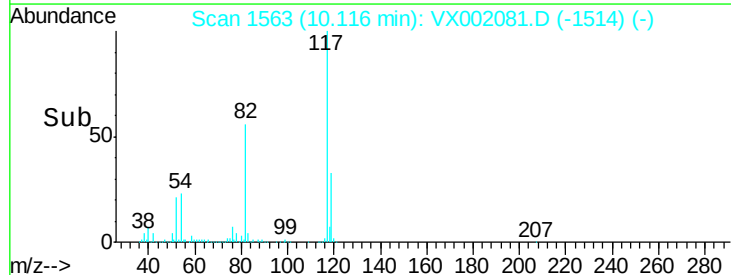
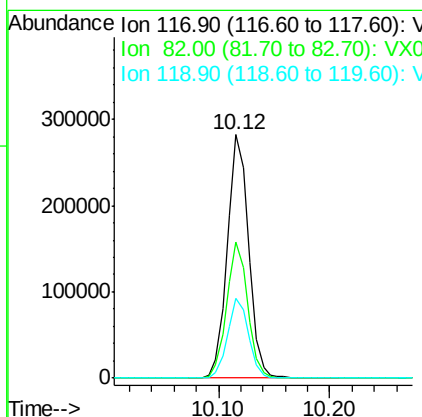
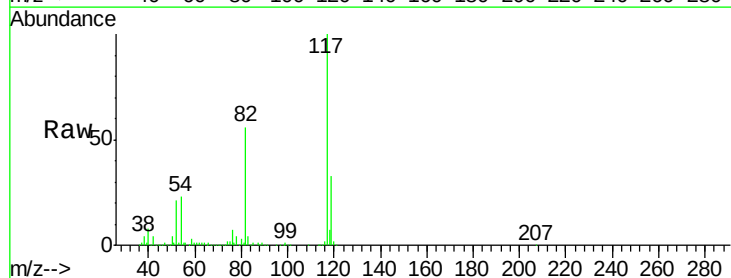
Instrument :
MSVOA_X
ClientSampleId :

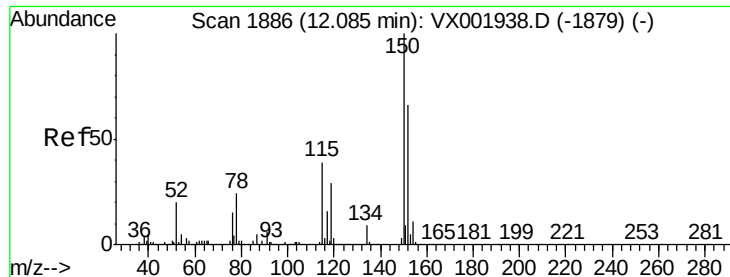
Tot Ion	95	Resp	208837
Ion Ratio	Lower	Upper	
95	100		
174	91.8	0.0	178.8
176	90.3	0.0	175.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002081.D
Acq: 27 May 2018 20:51

Tgt Ion	117	Resp	375005
Ion Ratio	Lower	Upper	
117	100		
82	55.9	44.8	67.2
119	32.6	25.5	38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002081.D

Acq: 27 May 2018 20:51

Instrument :

MSVOA_X

ClientSampleId :

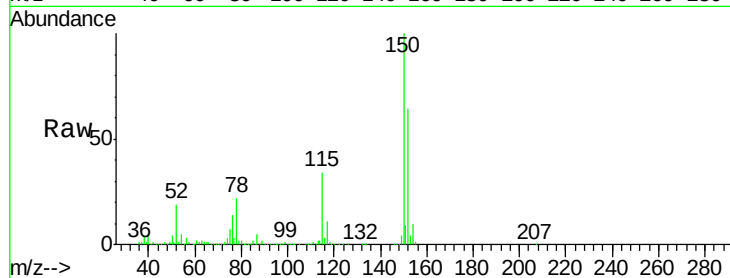
Tot Ion:152 Resp: 205581

Ion Ratio Lower Upper

152 100

115 54.9 42.3 126.8

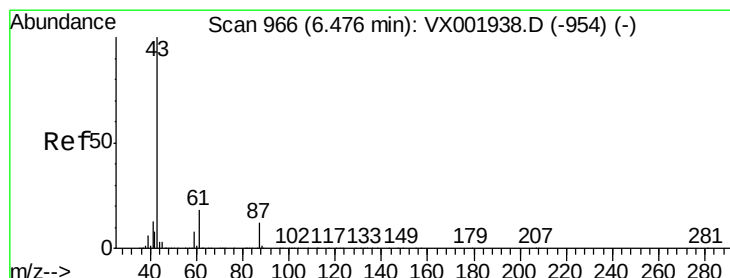
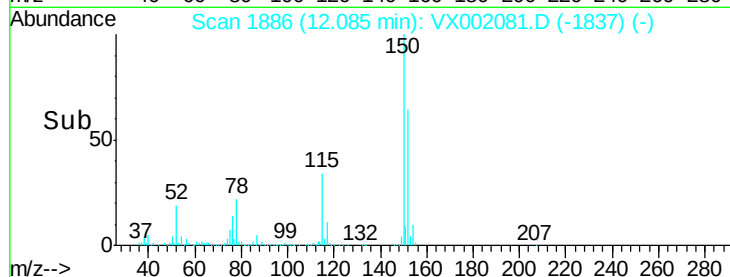
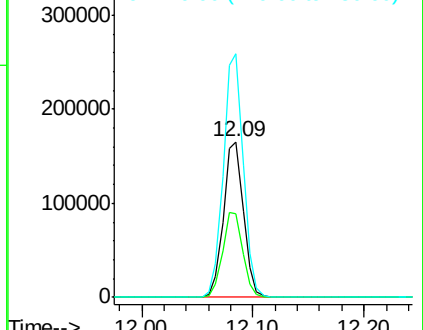
150 156.1 0.0 351.0



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



#74

N-amil acetate

Concen: Below Cal

RT: 6.49 min Scan# 968

Delta R.T. 0.01 min

Lab File: VX002081.D

Acq: 27 May 2018 20:51

Tgt Ion: 43 Resp: 480

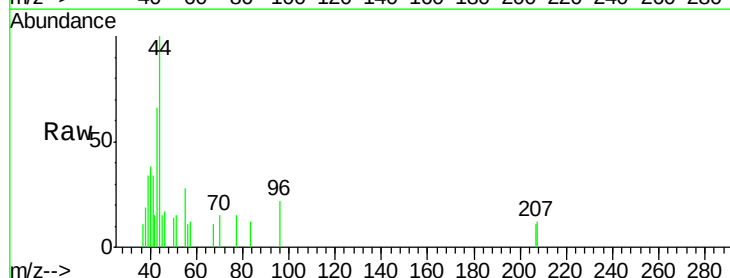
Ion Ratio Lower Upper

43 100

70 13.8 0.1 0.1#

55 0.0 0.1 0.1#

61 0.0 14.5 21.7#

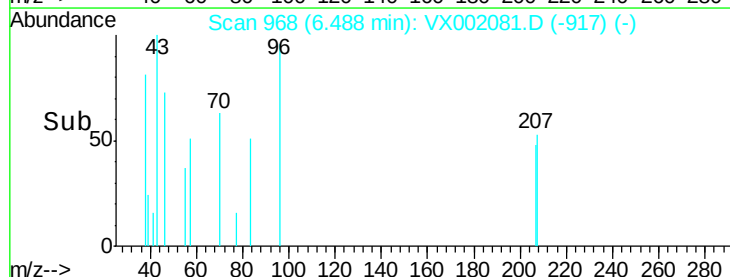
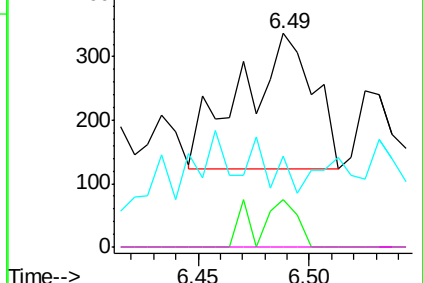


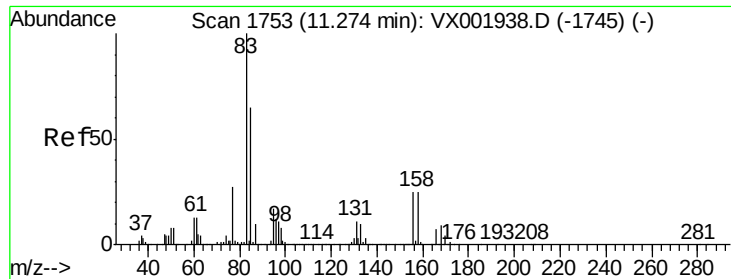
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.27 min Scan# 1753

Delta R.T. 0.00 min

Lab File: VX002081.D

Acq: 27 May 2018 20:51

Instrument :

MSVOA_X

ClientSampleId :

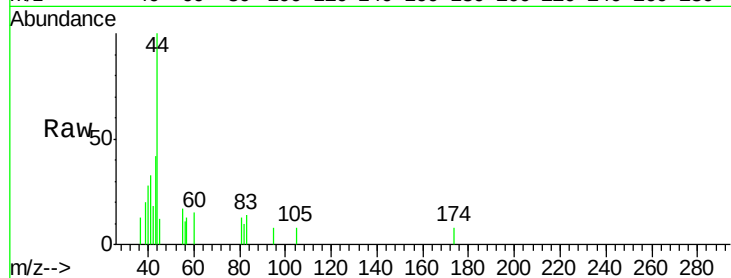
Tot Ion: 83 Resp: 34

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.0#

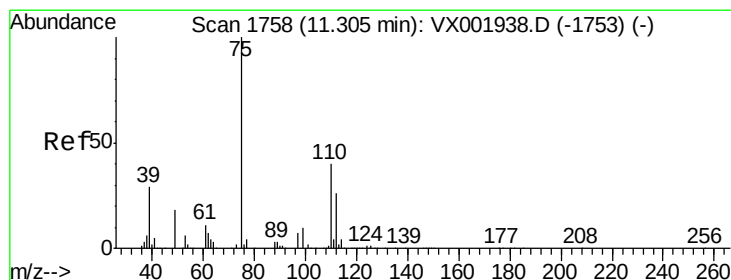
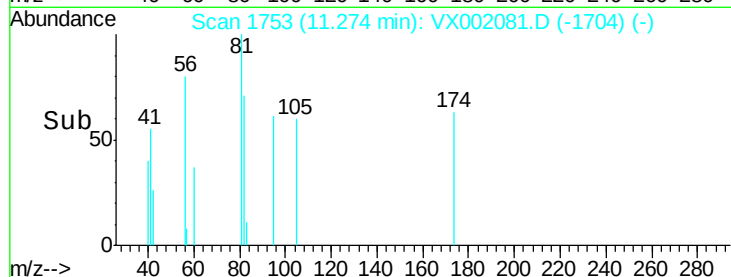
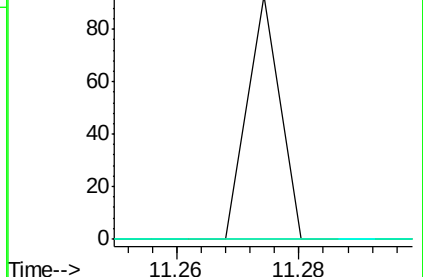
85 0.0 32.6 97.7#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): VX0

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 22.37 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002081.D

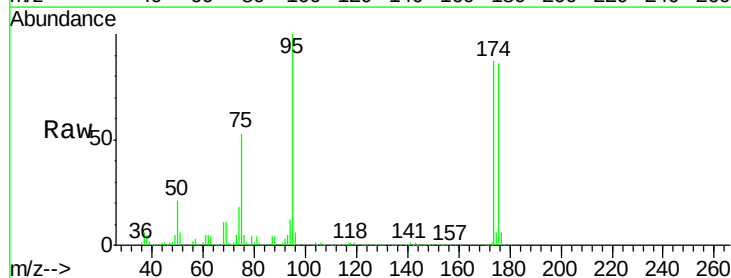
Acq: 27 May 2018 20:51

Tgt Ion: 75 Resp: 110464

Ion Ratio Lower Upper

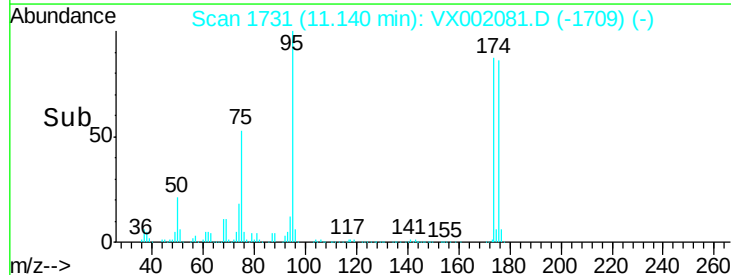
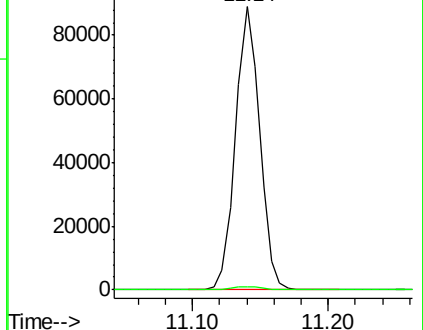
75 100

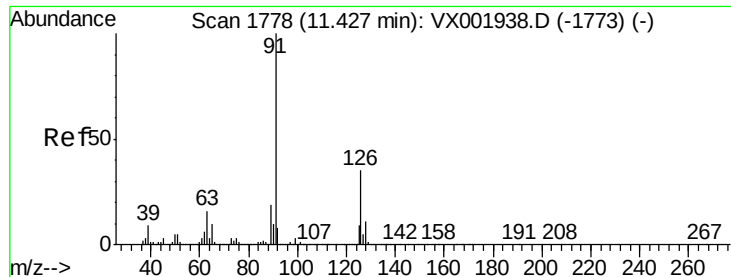
77 1.4 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

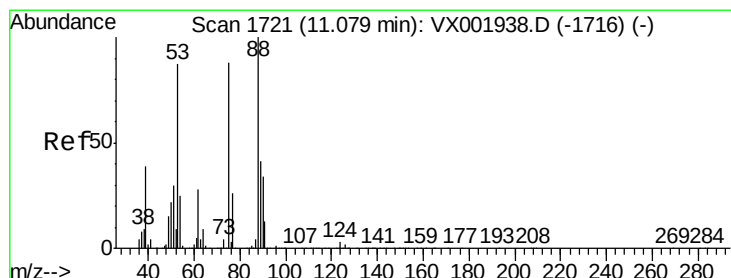
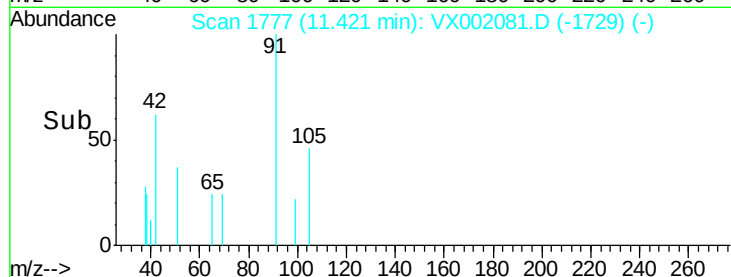
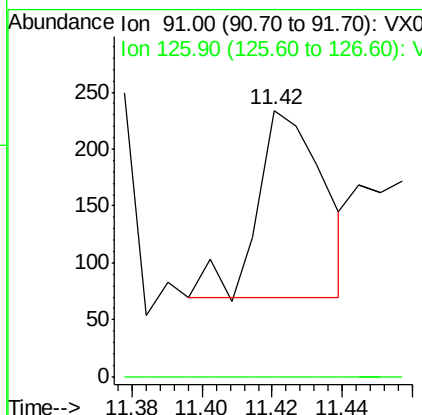
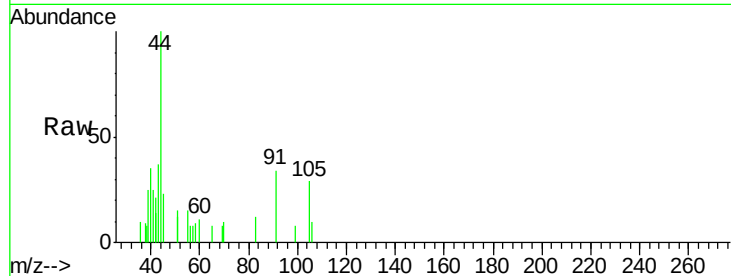




#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 11.42 min Scan# 1777
 Delta R.T. -0.01 min
 Lab File: VX002081.D
 Acq: 27 May 2018 20:51

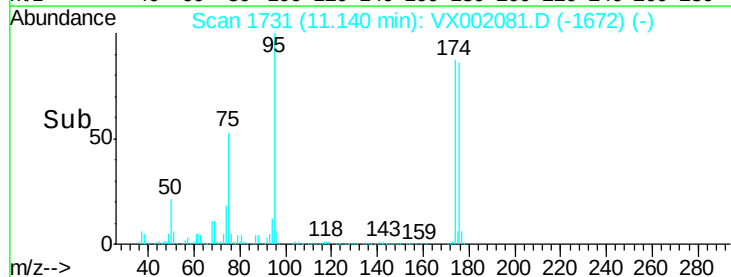
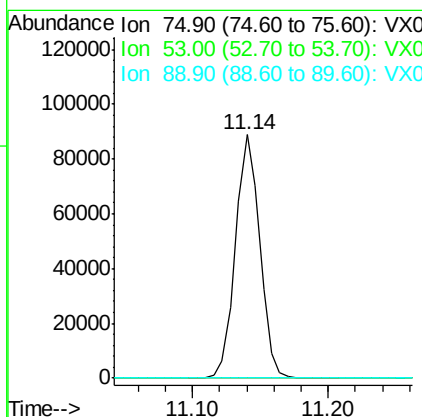
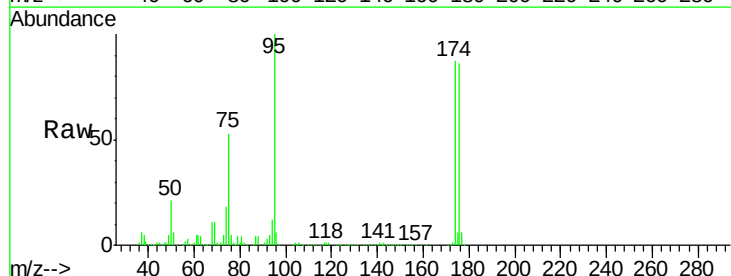
Instrument :
 MSVOA_X
 ClientSampleId :

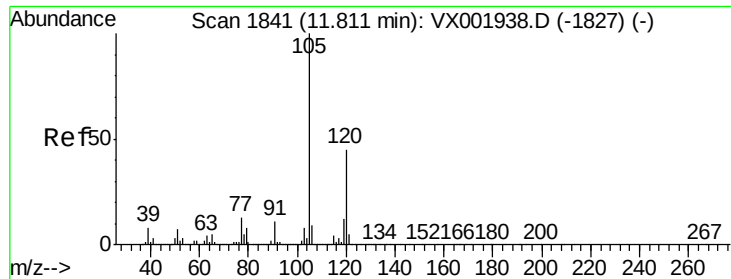
Tot Ion: 91 Resp: 217
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.4 52.2#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 53.77 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002081.D
 Acq: 27 May 2018 20:51

Tgt Ion: 75 Resp: 110464
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.0 117.0#
 89 0.0 39.4 59.2#





#84

1,2,4-Trimethylbenzene

Concen: 0.35 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. -0.00 min

Lab File: VX002081.D

Acq: 27 May 2018 20:51

Instrument :

MSVOA_X

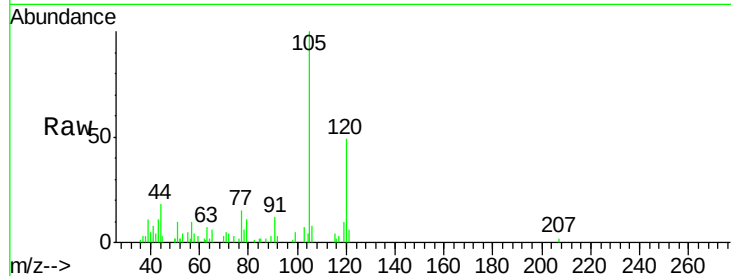
ClientSampled :

Tot Ion:105 Resp: 5389

Ion Ratio Lower Upper

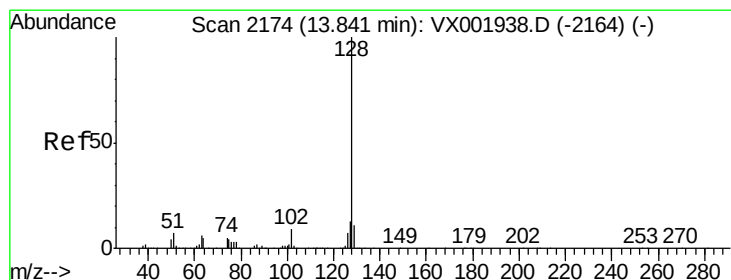
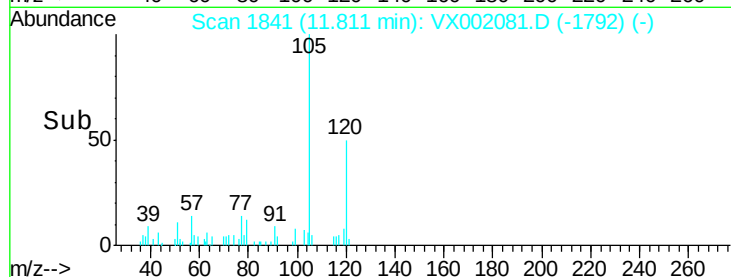
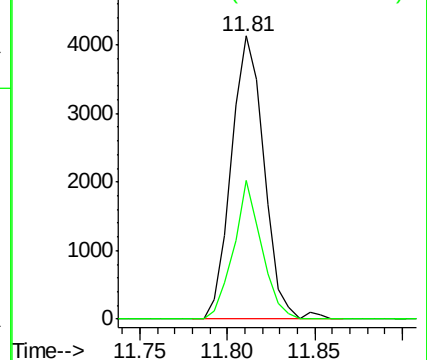
105 100

120 41.9 22.1 66.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#95

Naphthalene

Concen: 20.01 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX002081.D

Acq: 27 May 2018 20:51

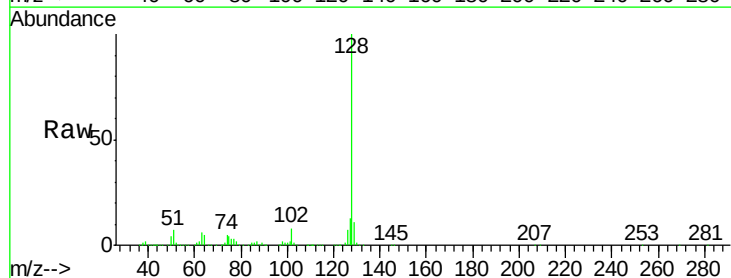
Tgt Ion:128 Resp: 371529

Ion Ratio Lower Upper

128 100

127 13.1 10.4 15.6

129 11.0 8.8 13.2



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

