

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070618\
 Data File : VN049746.D
 Acq On : 6 Jul 2018 18:21
 Operator : MD\SY
 Sample : PB110875ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 06 22:54:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062918W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 30 00:55:30 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1177293	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1945996	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1601492	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	609918	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	810206	52.11	ug/l	0.00
Spiked Amount			Recovery	=	104.22%	
35) Dibromofluoromethane	7.59	113	649838	44.67	ug/l	0.00
Spiked Amount			Recovery	=	89.34%	
50) Toluene-d8	10.09	98	2558722	44.93	ug/l	0.00
Spiked Amount			Recovery	=	89.86%	
62) 4-Bromofluorobenzene	12.40	95	730650	37.58	ug/l	0.00
Spiked Amount			Recovery	=	75.16%	

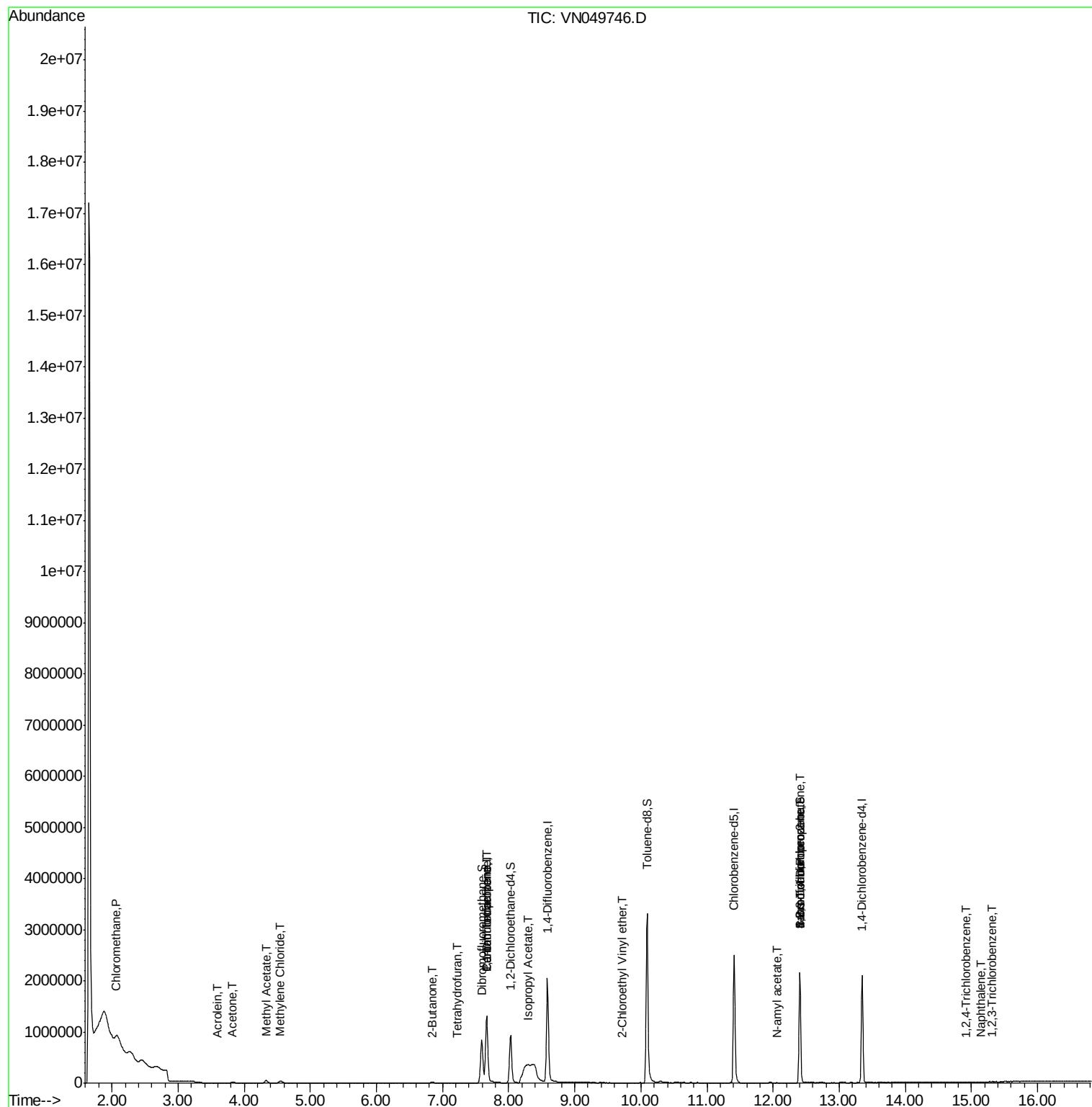
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	6620	0.40	ug/l	99
13) Acrolein	3.60	56	862	1.03	ug/l	# 60
16) Acetone	3.83	43	31723	2.24	ug/l	100
17) Carbon Disulfide	4.04	76	3256	Below Cal	#	75
18) Methyl Acetate	4.33	43	89096	1.15	ug/l	99
20) Methylene Chloride	4.55	84	28529	1.78	ug/l	97
25) 2-Butanone	6.85	43	10902	2.11	ug/l	95
29) Tetrahydrofuran	7.21	42	1459	0.44	ug/l	94
36) 1,1-Dichloropropene	7.67	75	81600	3.73	ug/l	# 49
38) Carbon Tetrachloride	7.66	117	101910	4.79	ug/l	# 15
43) Isopropyl Acetate	8.28	43	593054	23.08	ug/l	# 62
58) 2-Chloroethyl Vinyl ether	9.72	63	63	10.83	ug/l	# 48
71) Bromoform	12.41	173	5878	0.59	ug/l	# 1
74) N-amyl acetate	12.04	43	3126	0.24	ug/l	# 45
75) 1,1,2,2-Tetrachloroethane	12.50	83	62	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	358208	36.62	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	358208	124.38	ug/l	# 13
87) 1,3-Dichlorobenzene	13.29	146	307	Below Cal	#	71
88) 1,4-Dichlorobenzene	13.37	146	335	Below Cal	#	25
91) 1,2-Dichlorobenzene	13.65	146	383	Below Cal	#	74
92) 1,2-Dibromo-3-Chloropropan	14.27	75	254	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.91	180	35	2.41	ug/l	# 1
95) Naphthalene	15.14	128	1421	4.09	ug/l	# 72
96) 1,2,3-Trichlorobenzene	15.32	180	316	1.68	ug/l	# 61

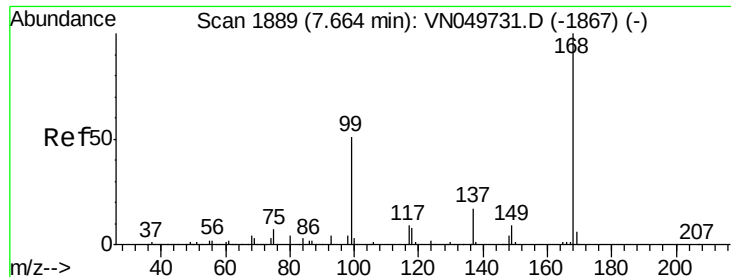
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN070618\
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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Jul 06 22:54:47 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N062918W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 30 00:55:30 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049746.D

Acq: 6 Jul 2018 18:21

Instrument :

MSVOA_N

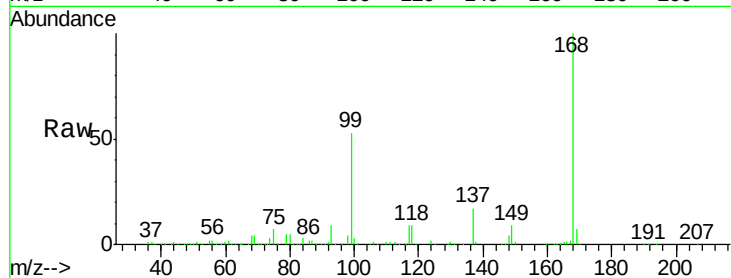
ClientSampled :

Tot Ion:168 Resp: 1177293

Ion Ratio Lower Upper

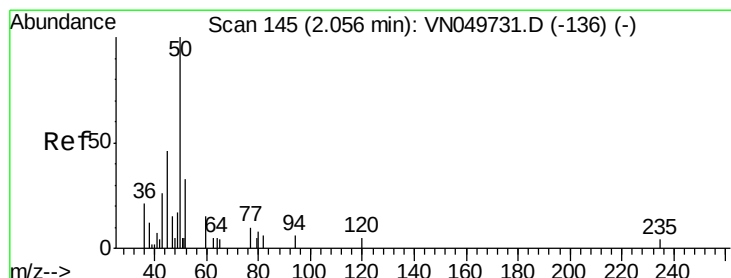
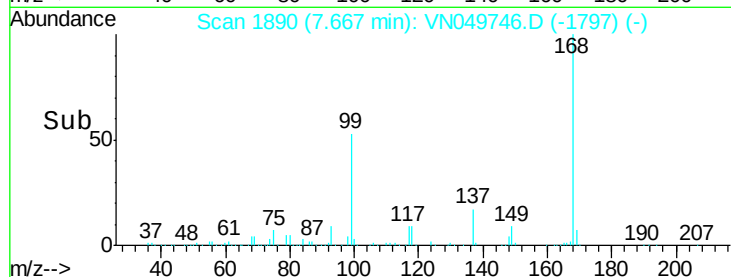
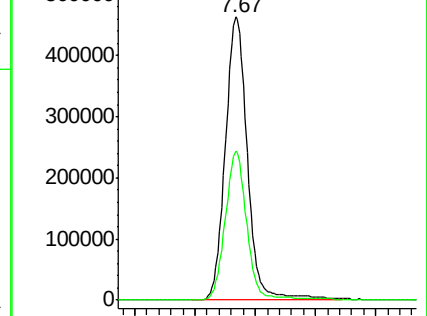
168 100

99 52.7 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: 0.40 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN049746.D

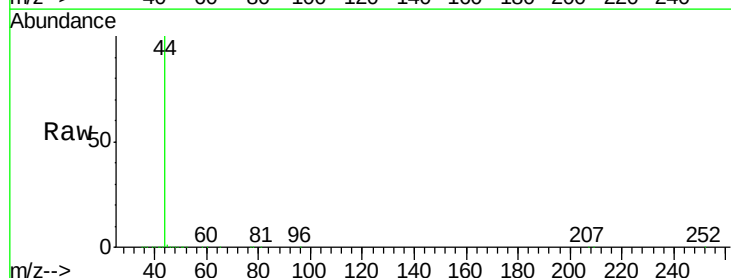
Acq: 6 Jul 2018 18:21

Tgt Ion: 50 Resp: 6620

Ion Ratio Lower Upper

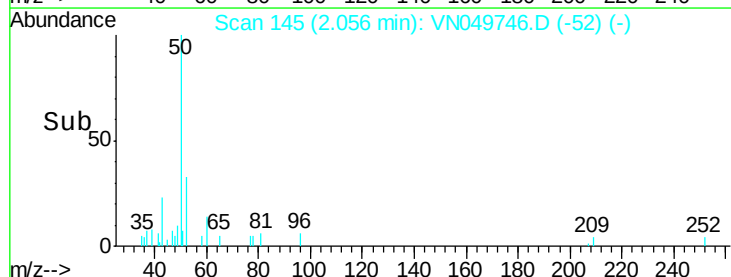
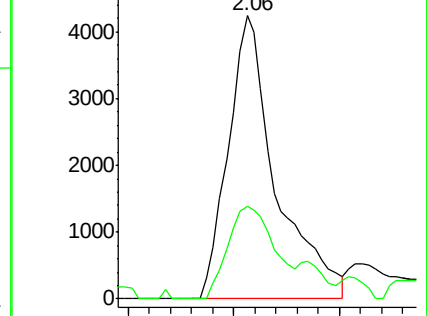
50 100

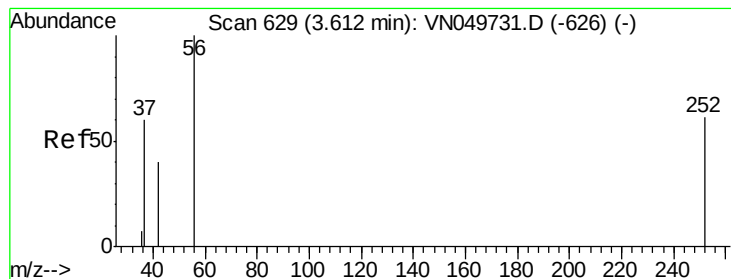
52 32.9 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#13

Acrolein

Concen: 1.03 ug/l

RT: 3.60 min Scan# 625

Delta R.T. -0.01 min

Lab File: VN049746.D

Acq: 6 Jul 2018 18:21

Instrument :

MSVOA_N

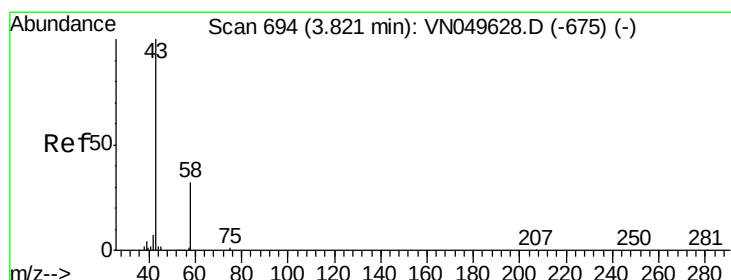
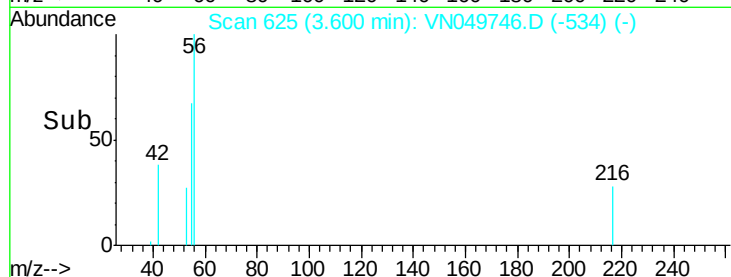
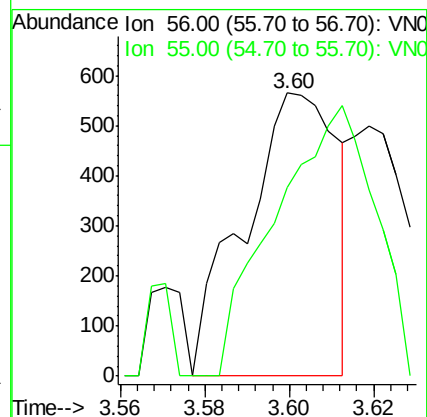
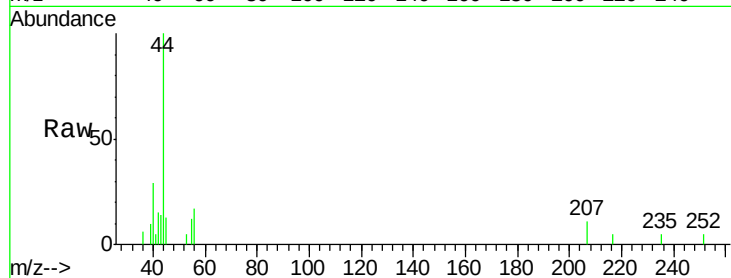
ClientSampled :

Tot Ion: 56 Resp: 862

Ion Ratio Lower Upper

56 100

55 102.6 55.8 83.8#



#16

Acetone

Concen: 2.24 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN049746.D

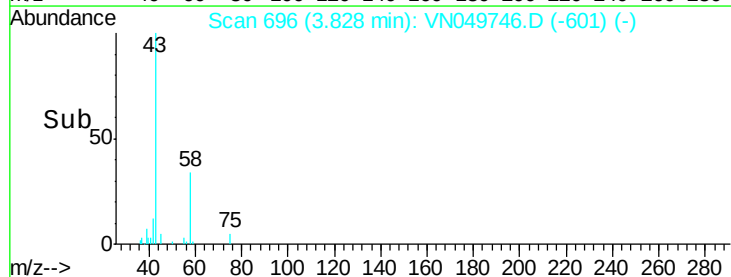
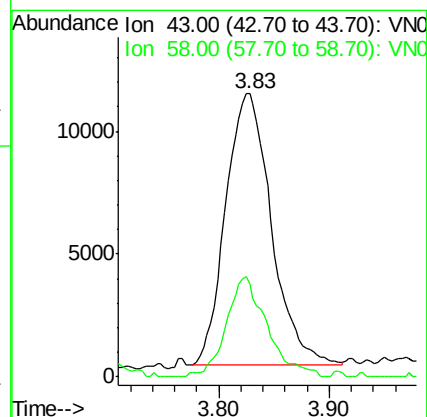
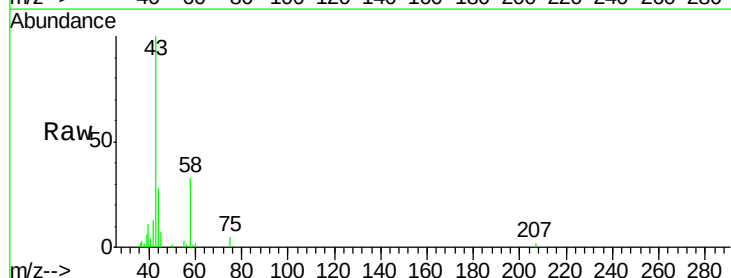
Acq: 6 Jul 2018 18:21

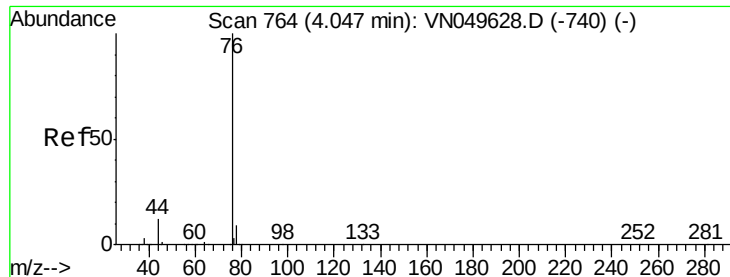
Tgt Ion: 43 Resp: 31723

Ion Ratio Lower Upper

43 100

58 32.7 25.9 38.9

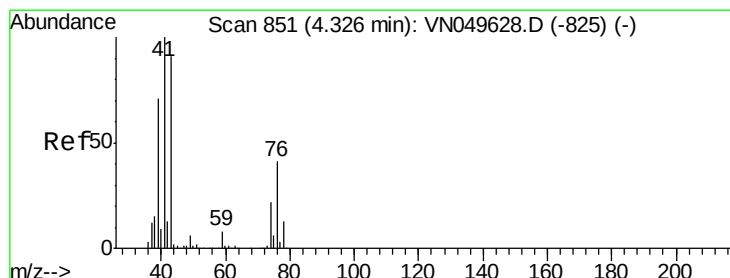
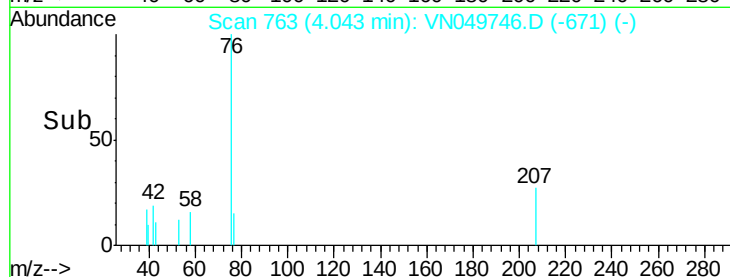
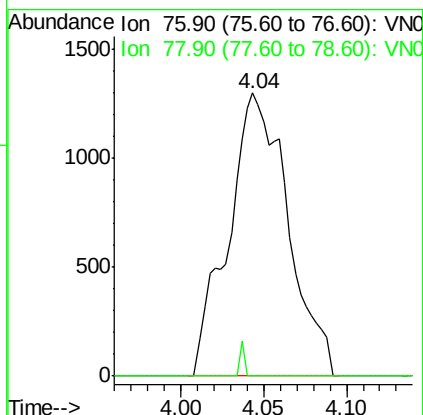
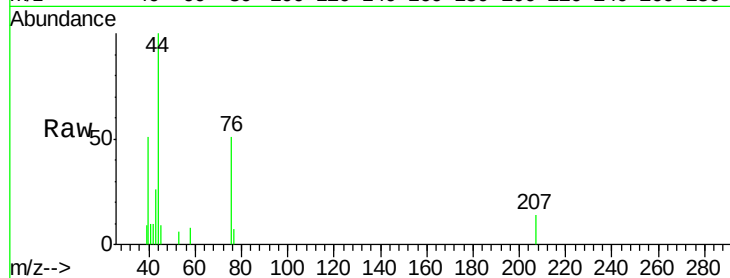




#17
Carbon Disulfide
Concen: Below Cal
RT: 4.04 min Scan# 763
Delta R.T. -0.00 min
Lab File: VN049746.D
Acq: 6 Jul 2018 18:21

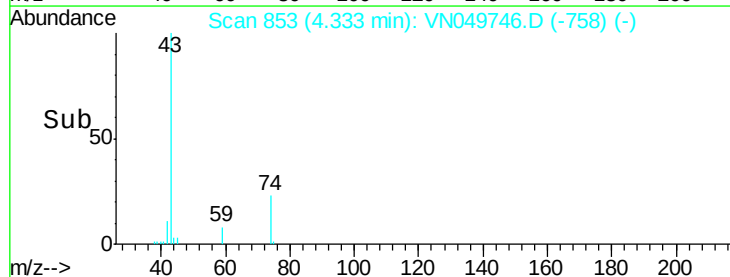
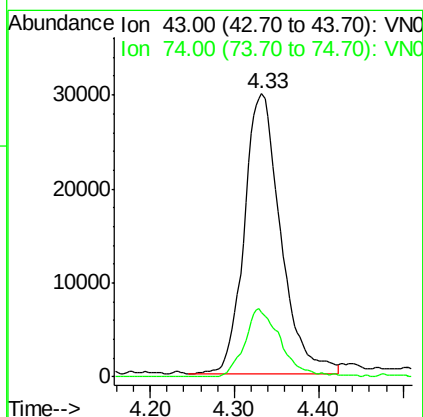
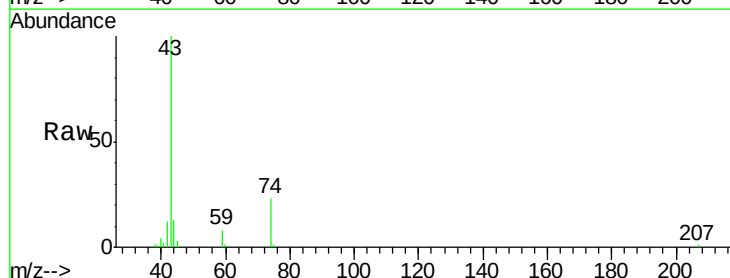
Instrument :
MSVOA_N
ClientSampled :

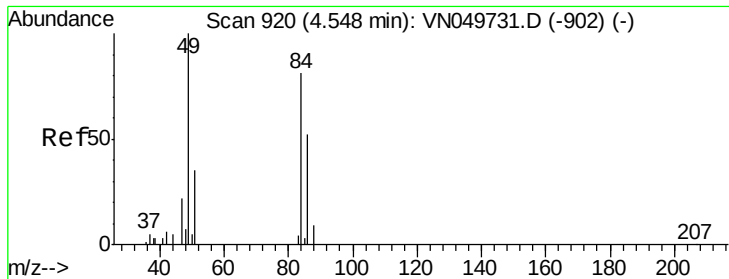
Tot Ion: 76 Resp: 3256
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#



#18
Methyl Acetate
Concen: 1.15 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.01 min
Lab File: VN049746.D
Acq: 6 Jul 2018 18:21

Tgt Ion: 43 Resp: 89096
Ion Ratio Lower Upper
43 100
74 24.1 19.8 29.8

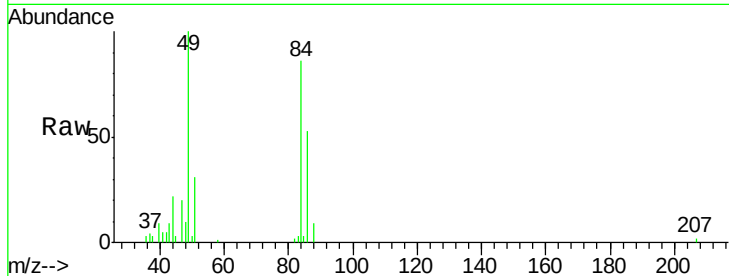




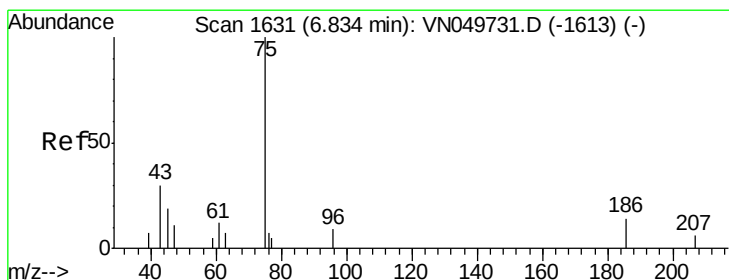
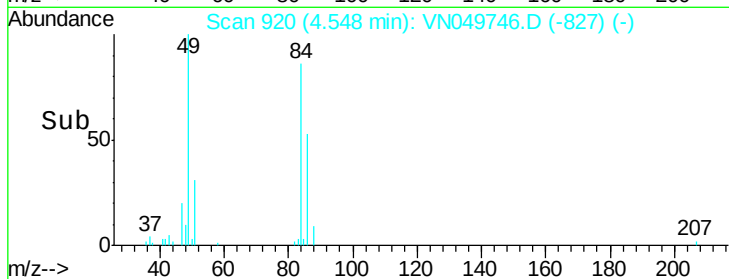
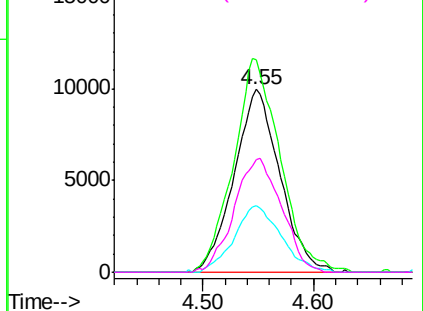
#20
Methvlene Chloride
Concen: 1.78 ug/l
RT: 4.55 min Scan# 920
Delta R.T. 0.00 min
Lab File: VN049746.D
Acq: 6 Jul 2018 18:21

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	84	Resp:	28529
Ion	Ratio	Lower	Upper
84	100		
49	116.1	95.4	143.2
51	36.2	28.4	42.6
86	62.0	52.6	79.0

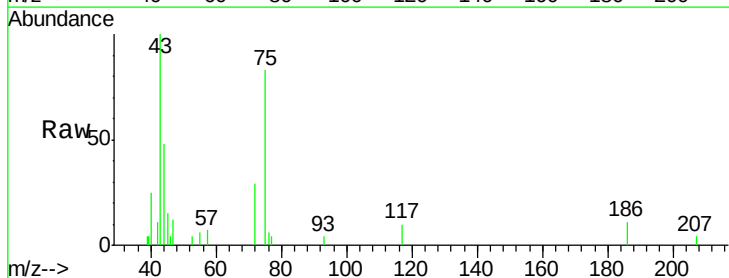


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

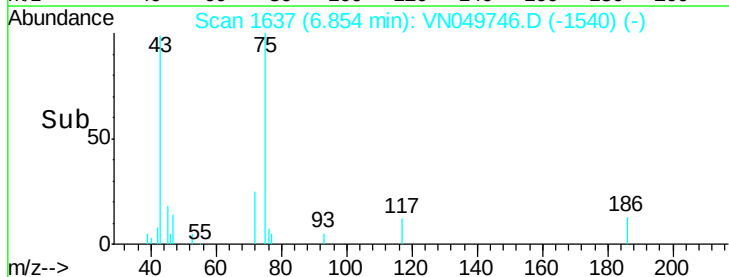
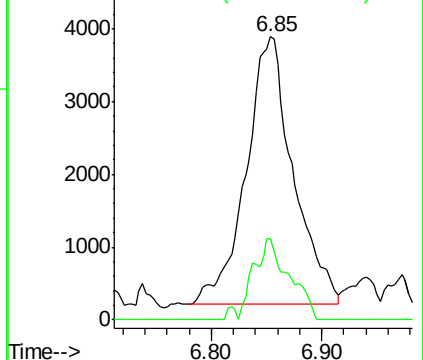


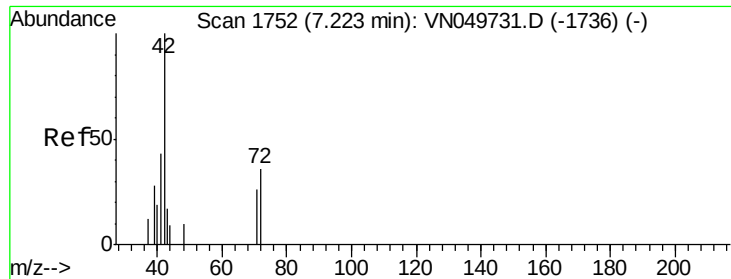
#25
2-Butanone
Concen: 2.11 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.01 min
Lab File: VN049746.D
Acq: 6 Jul 2018 18:21

Tgt Ion:	43	Resp:	10902
Ion	Ratio	Lower	Upper
43	100		
72	30.4	22.1	33.1



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0

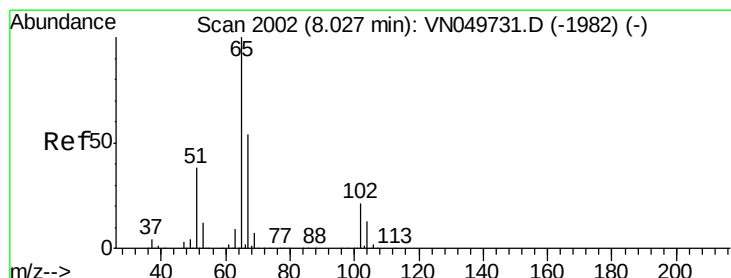
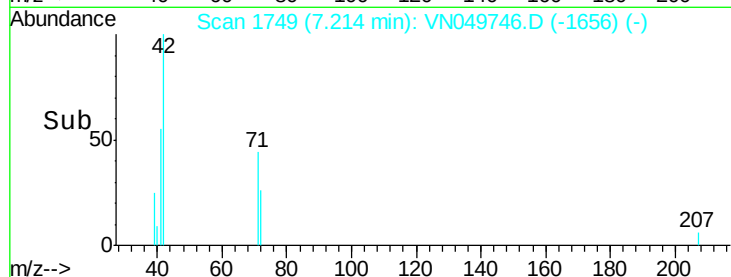
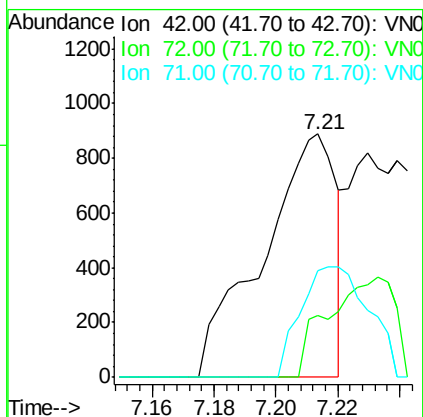
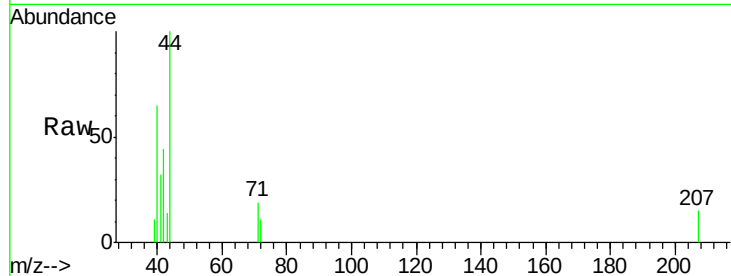




#29
Tetrahydrofuran
Concen: 0.44 ug/l
RT: 7.21 min Scan# 1749
Delta R.T. 0.00 min
Lab File: VN049746.D
Acq: 6 Jul 2018 18:21

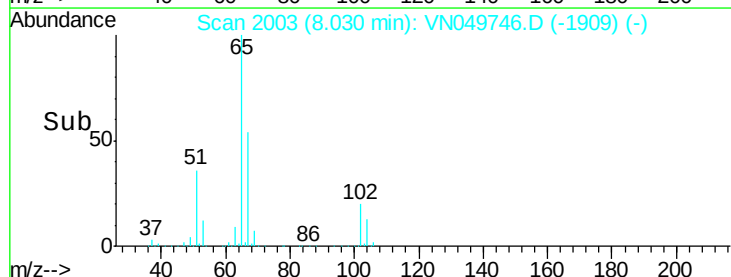
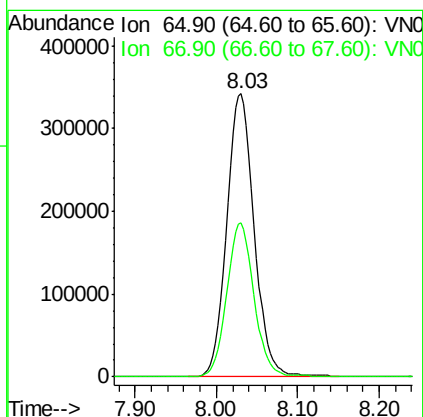
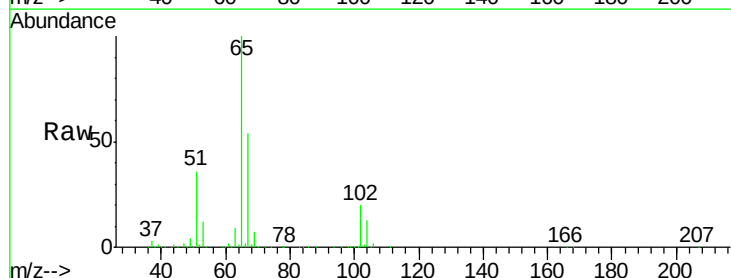
Instrument :
MSVOA_N
ClientSampled :

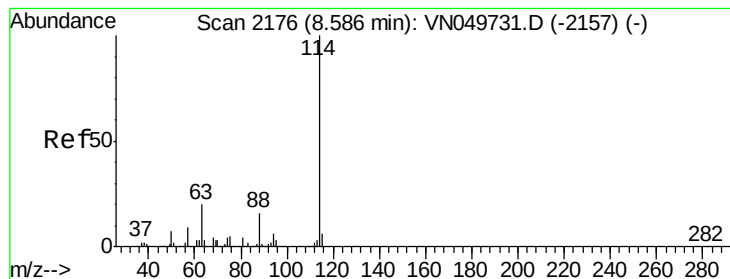
Tot Ion: 42 Resp: 1459
Ion Ratio Lower Upper
42 100
72 37.4 35.6 53.4
71 42.1 34.0 51.0



#33
1,2-Dichloroethane-d4
Concen: 52.11 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049746.D
Acq: 6 Jul 2018 18:21

Tgt Ion: 65 Resp: 810206
Ion Ratio Lower Upper
65 100
67 54.2 0.0 107.2





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VN049746.D

Acq: 6 Jul 2018 18:21

Instrument :

MSVOA_N

ClientSampleId :

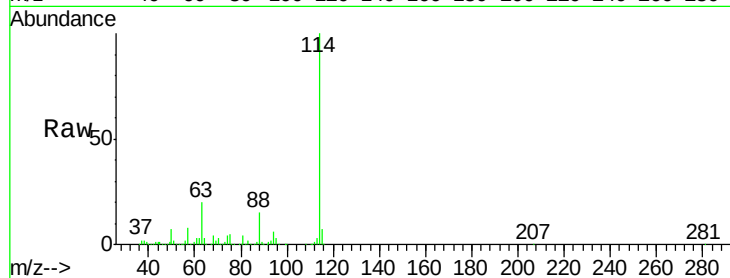
Tot Ion:114 Resp: 1945996

Ion Ratio Lower Upper

114 100

63 20.1 0.0 39.8

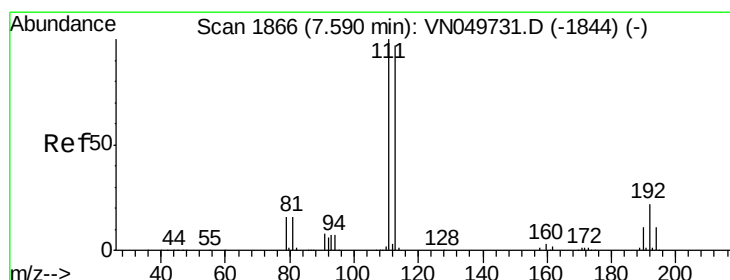
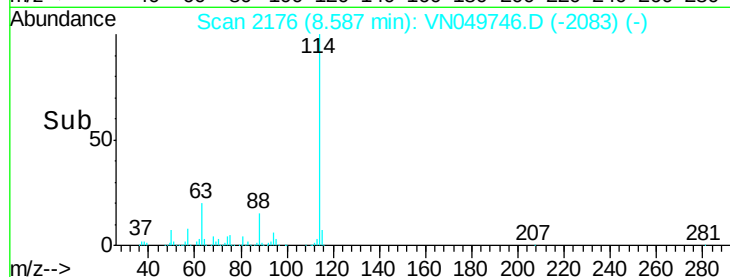
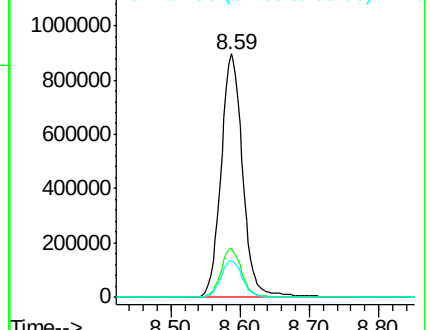
88 15.1 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 44.67 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN049746.D

Acq: 6 Jul 2018 18:21

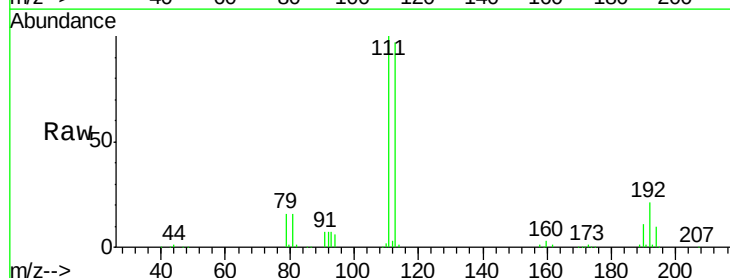
Tgt Ion:113 Resp: 649838

Ion Ratio Lower Upper

113 100

111 102.4 81.8 122.8

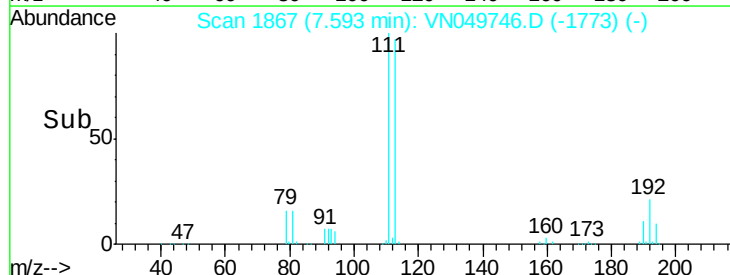
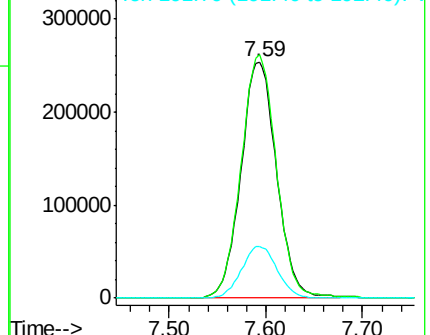
192 21.9 17.8 26.6

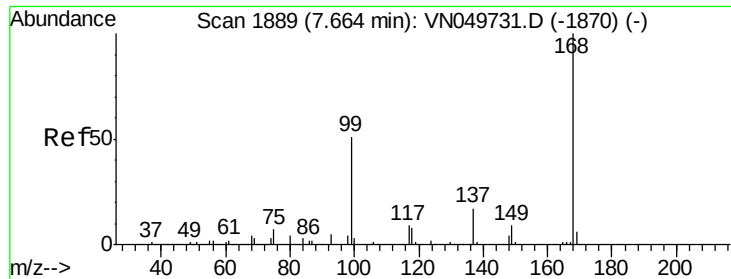


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

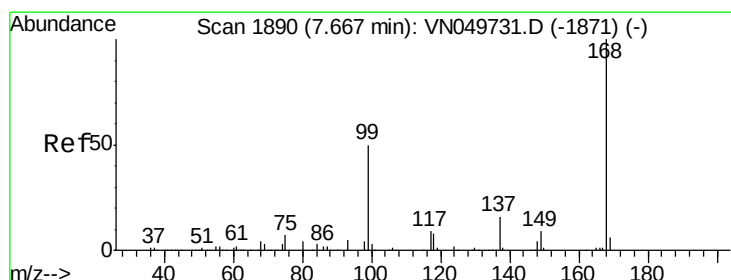
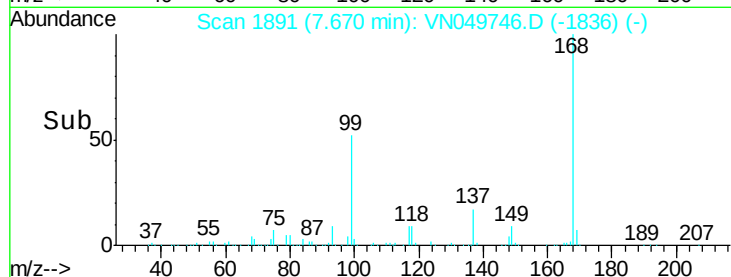
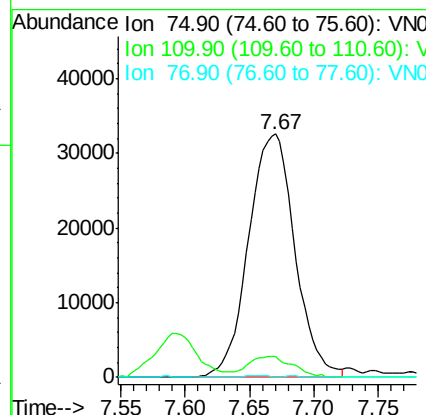
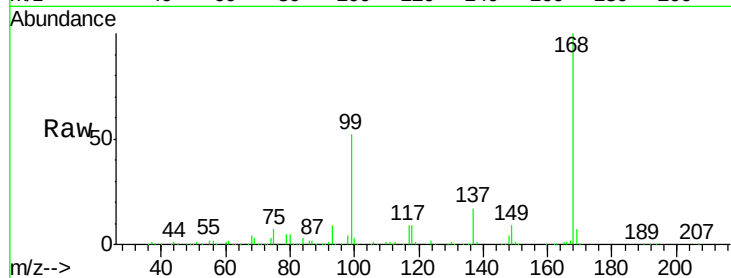




#36
 1,1-Dichloropropene
 Concen: 3.73 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.12 min
 Lab File: VN049746.D
 Acq: 6 Jul 2018 18:21

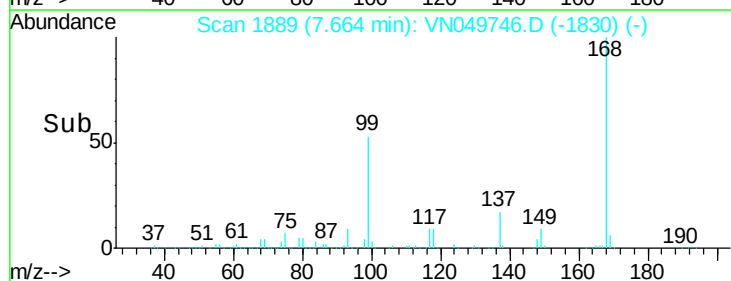
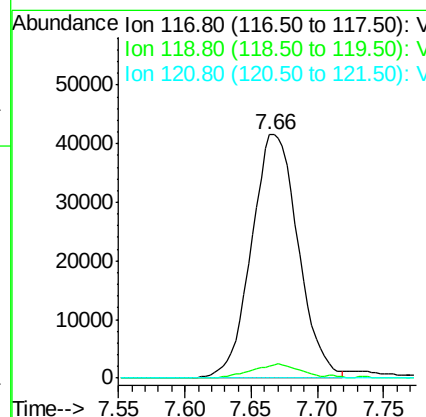
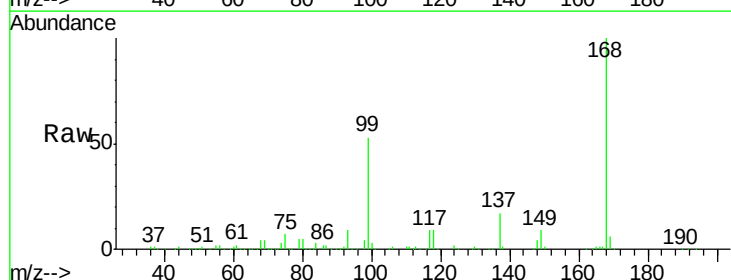
Instrument :
 MSVOA_N
 ClientSampled :

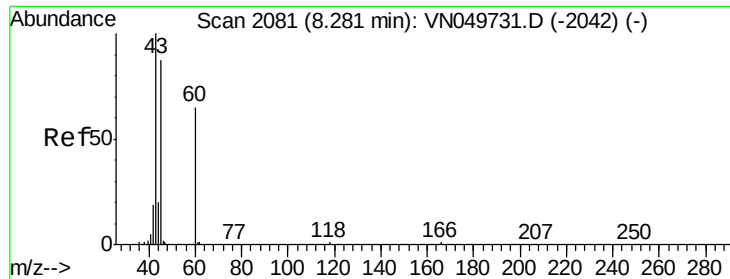
Tot Ion: 75 Resp: 81600
 Ion Ratio Lower Upper
 75 100
 110 8.3 18.1 54.4#
 77 0.3 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 4.79 ug/l
 RT: 7.66 min Scan# 1889
 Delta R.T. -0.11 min
 Lab File: VN049746.D
 Acq: 6 Jul 2018 18:21

Tgt Ion: 117 Resp: 101910
 Ion Ratio Lower Upper
 117 100
 119 4.7 77.2 115.8#
 121 0.0 25.0 37.6#





#43

Isopropyl Acetate

Concen: 23.08 ug/l

RT: 8.28 min Scan# 2081

Delta R.T. 0.12 min

Lab File: VN049746.D

Acq: 6 Jul 2018 18:21

Instrument :

MSVOA_N

ClientSampleId :

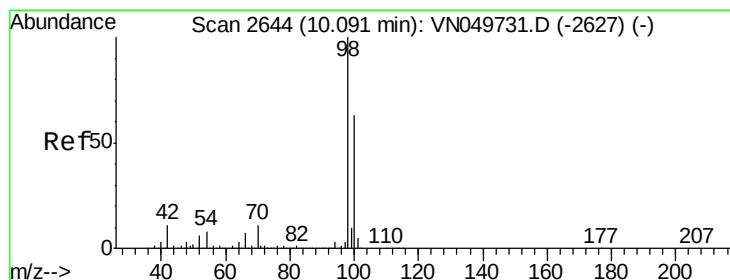
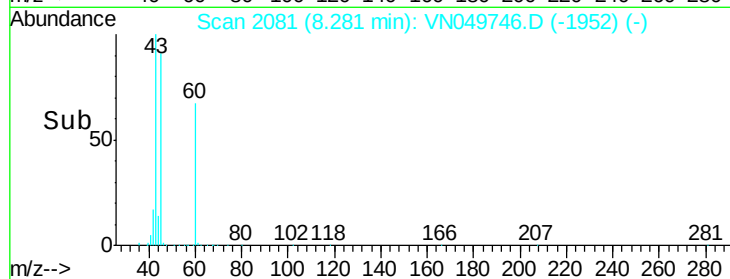
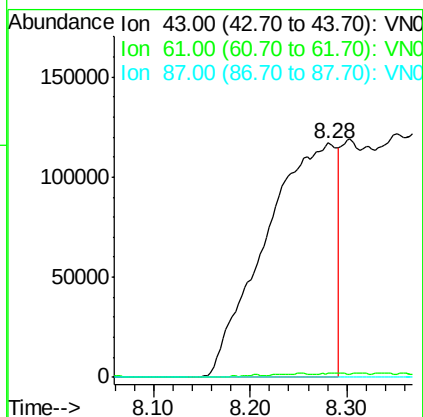
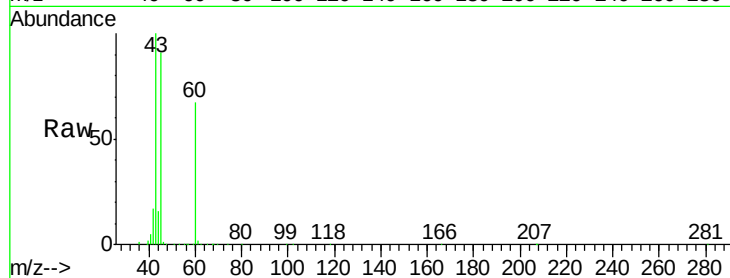
Tot Ion: 43 Resp: 593054

Ion Ratio Lower Upper

43 100

61 0.0 14.9 22.3#

87 0.0 10.0 15.0#



#50

Toluene-d8

Concen: 44.93 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN049746.D

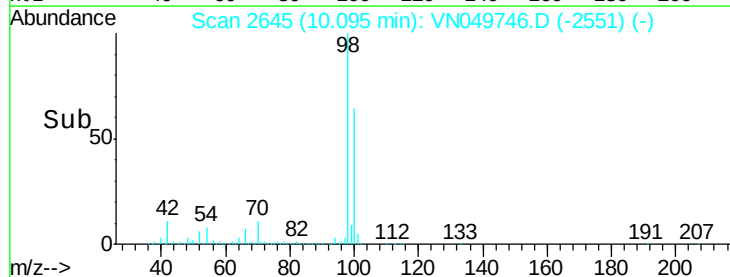
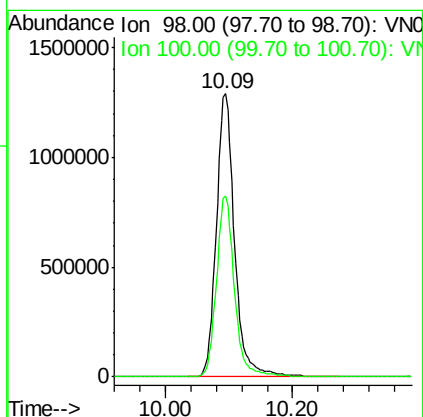
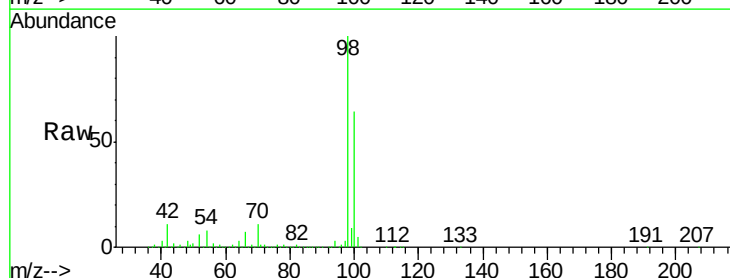
Acq: 6 Jul 2018 18:21

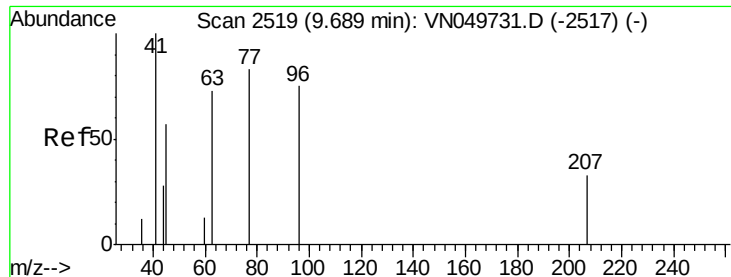
Tgt Ion: 98 Resp: 2558722

Ion Ratio Lower Upper

98 100

100 63.4 51.7 77.5

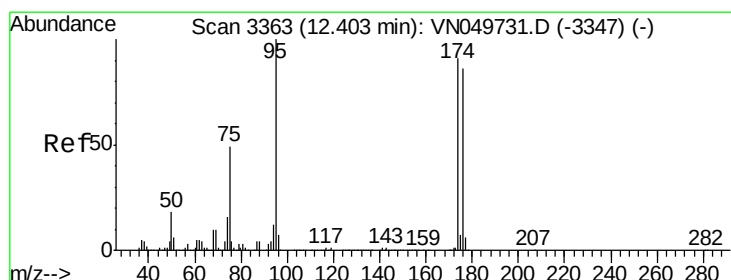
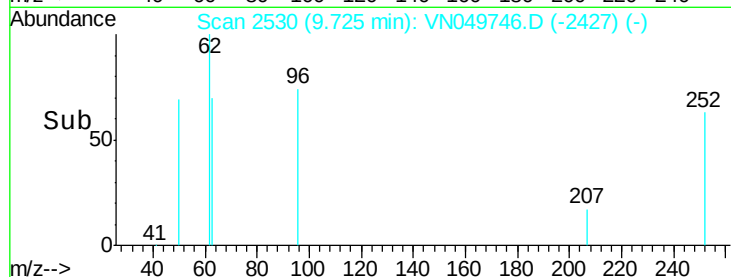
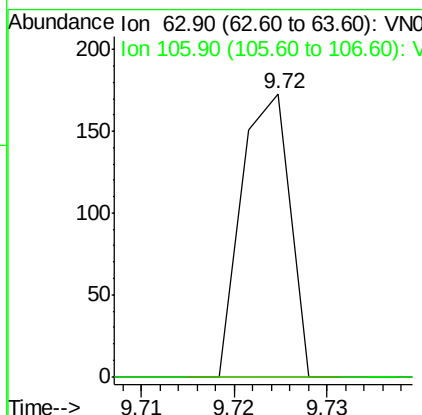
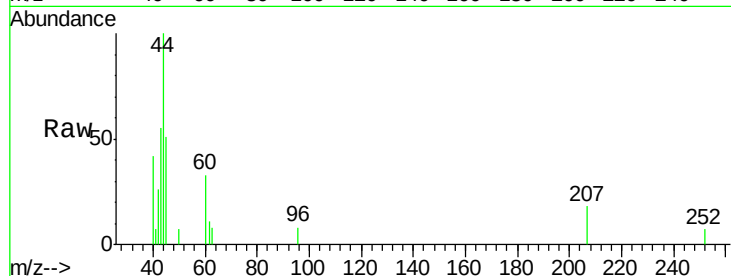




#58
2-Chloroethyl Vinyl ether
Concen: 10.83 ug/l
RT: 9.72 min Scan# 2530
Delta R.T. 0.03 min
Lab File: VN049746.D
Acq: 6 Jul 2018 18:21

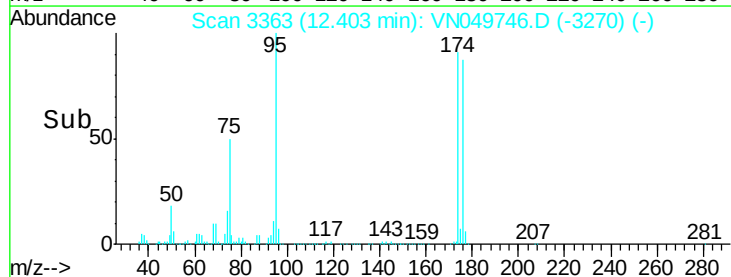
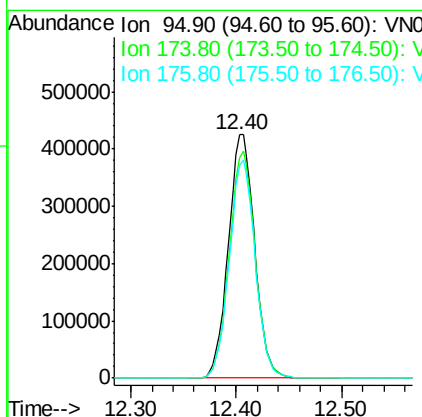
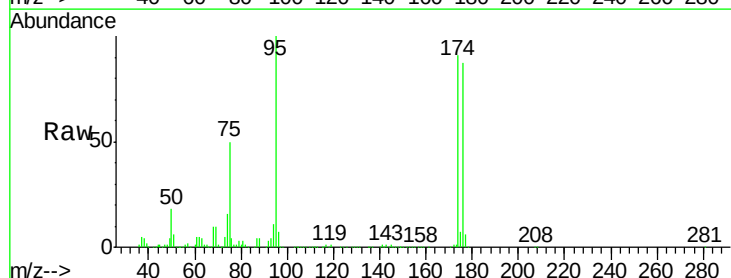
Instrument :
MSVOA_N
ClientSampleId :

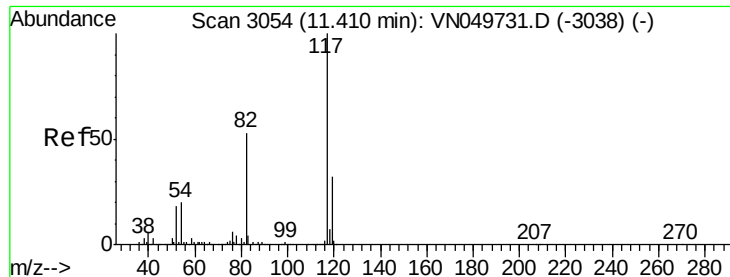
Tot Ion: 63 Resp: 63
Ion Ratio Lower Upper
63 100
106 0.0 21.8 32.8#



#62
4-Bromofluorobenzene
Concen: 37.58 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN049746.D
Acq: 6 Jul 2018 18:21

Tgt Ion: 95 Resp: 730650
Ion Ratio Lower Upper
95 100
174 92.1 0.0 179.6
176 87.9 0.0 174.0

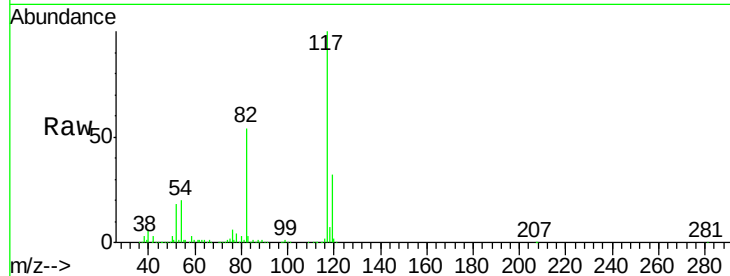




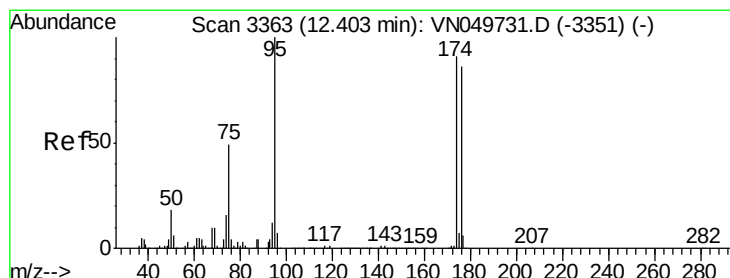
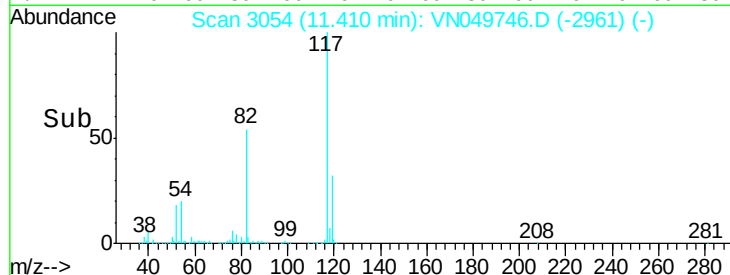
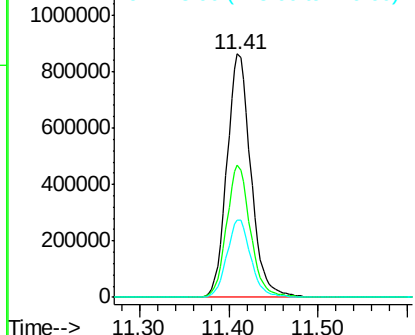
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049746.D
Acq: 6 Jul 2018 18:21

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 1601492
Ion Ratio Lower Upper
117 100
82 54.1 41.9 62.9
119 31.9 25.4 38.2

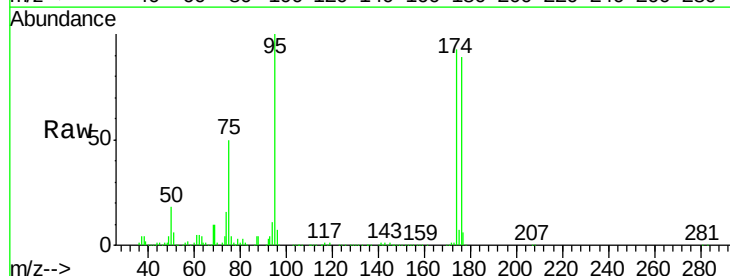


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

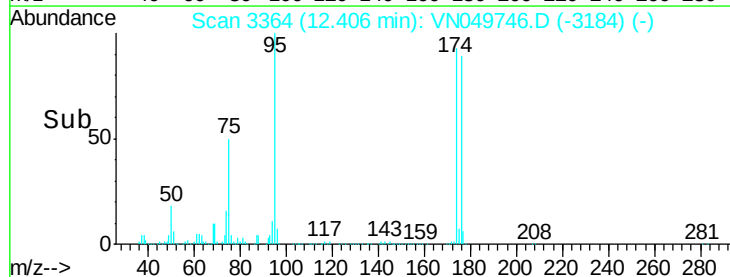
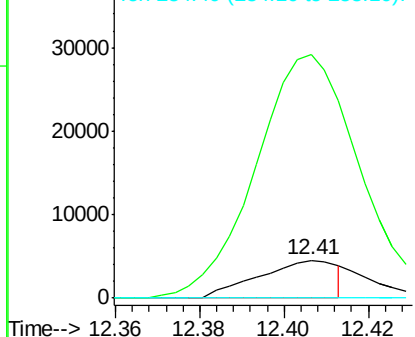


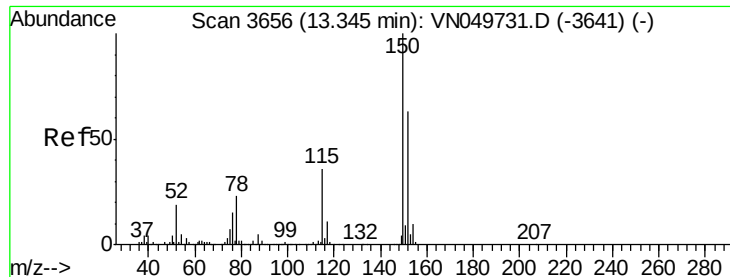
#71
Bromoform
Concen: 0.59 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.28 min
Lab File: VN049746.D
Acq: 6 Jul 2018 18:21

Tgt Ion:173 Resp: 5878
Ion Ratio Lower Upper
173 100
175 657.9 24.6 73.8#
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN049746.D

Acq: 6 Jul 2018 18:21

Instrument :

MSVOA_N

ClientSampleId :

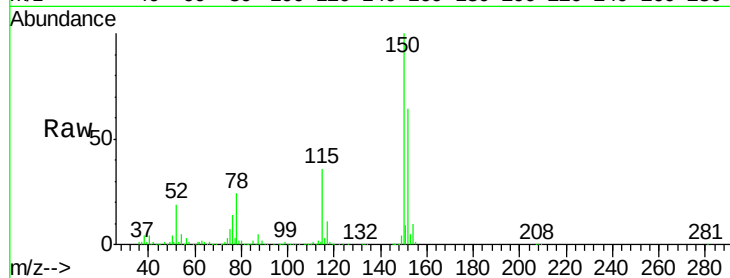
Tot Ion:152 Resp: 609918

Ion Ratio Lower Upper

152 100

115 55.4 28.1 84.2

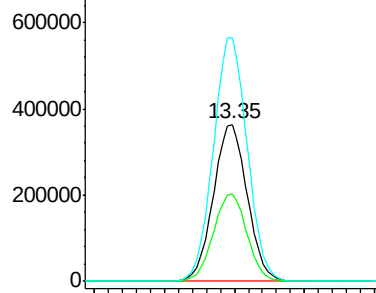
150 156.1 0.0 347.6



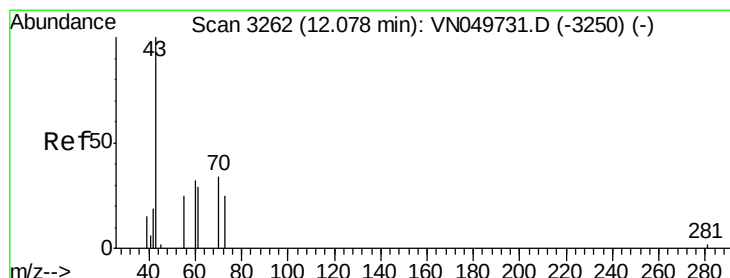
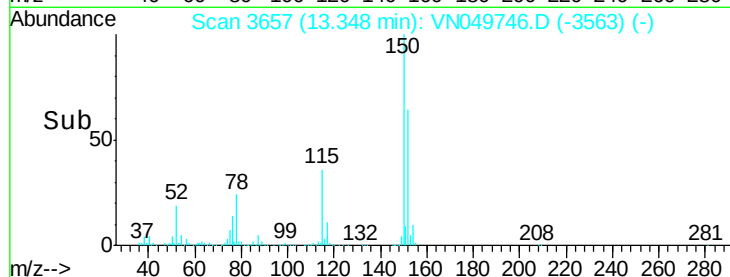
Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



Time--> 13.25 13.30 13.35 13.40



#74

N-ethyl acetate

Concen: 0.24 ug/l

RT: 12.04 min Scan# 3251

Delta R.T. -0.03 min

Lab File: VN049746.D

Acq: 6 Jul 2018 18:21

Tgt Ion: 43 Resp: 3126

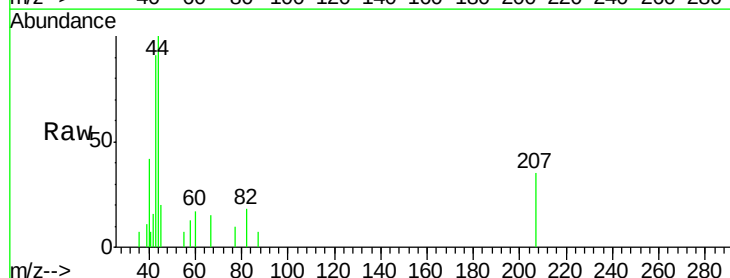
Ion Ratio Lower Upper

43 100

70 0.0 34.8 52.2#

55 6.0 20.9 31.3#

61 0.0 19.9 29.9#

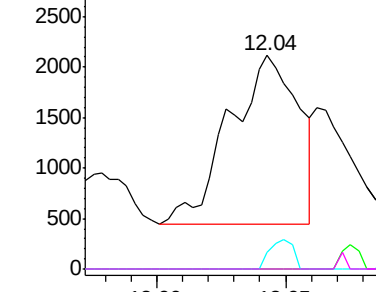


Abundance Ion 43.00 (42.70 to 43.70): V

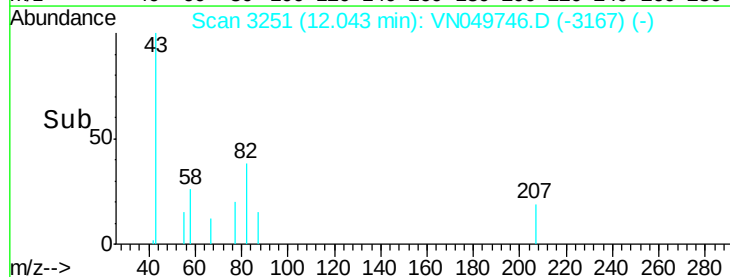
Ion 70.00 (69.70 to 70.70): V

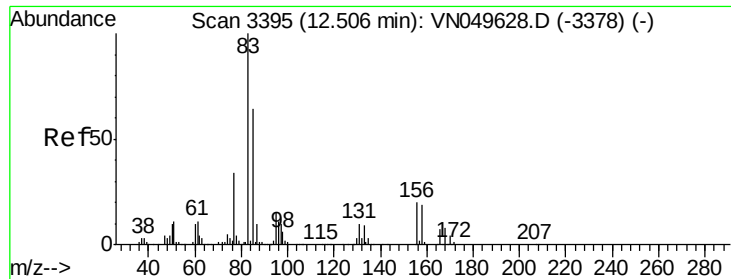
Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V



Time--> 12.00 12.05





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3394

Delta R.T. -0.00 min

Lab File: VN049746.D

Acq: 6 Jul 2018 18:21

Instrument :

MSVOA_N

ClientSampleId :

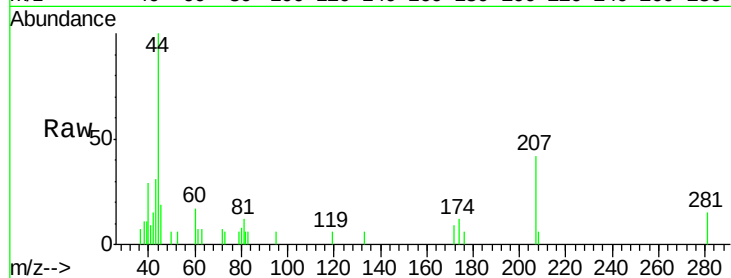
Tot Ion: 83 Resp: 62

Ion Ratio Lower Upper

83 100

131 0.0 5.2 15.6#

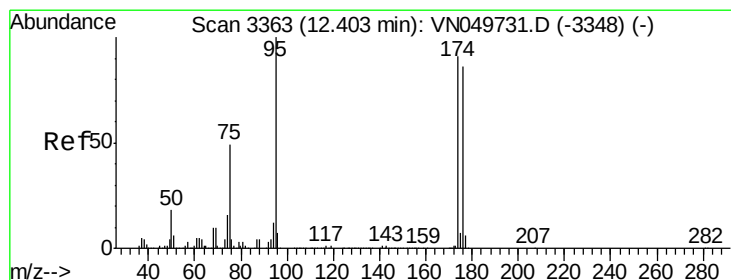
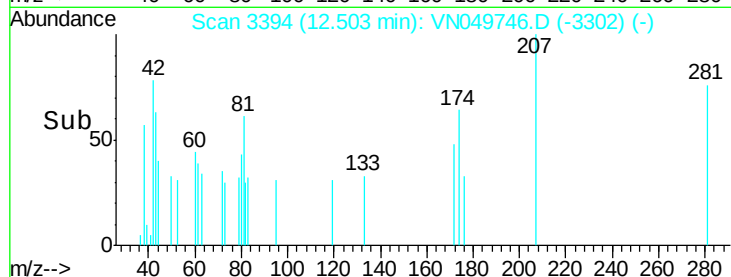
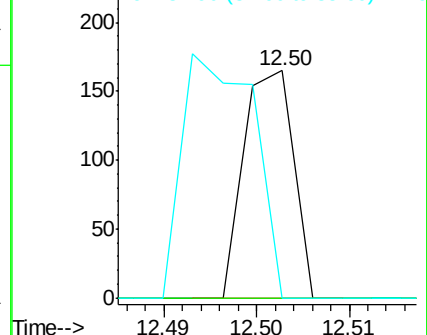
85 151.6 32.5 97.4#



Abundance Ion 82.90 (82.60 to 83.60): VNC

Ion 130.80 (130.50 to 131.50): VNC

Ion 84.90 (84.60 to 85.60): VNC



#76

1,2,3-Trichloropropane

Concen: 36.62 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049746.D

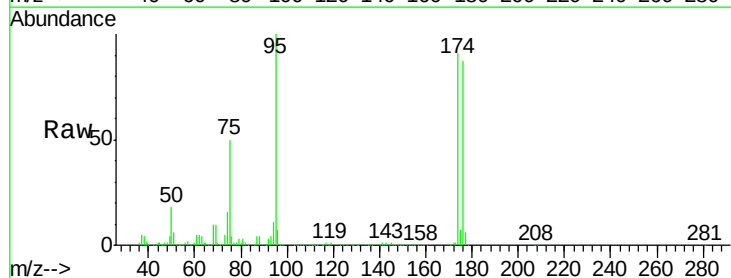
Acq: 6 Jul 2018 18:21

Tgt Ion: 75 Resp: 358208

Ion Ratio Lower Upper

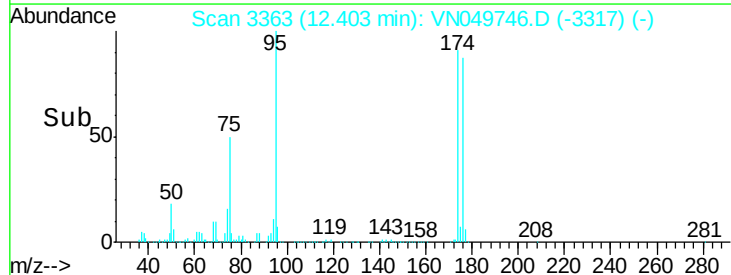
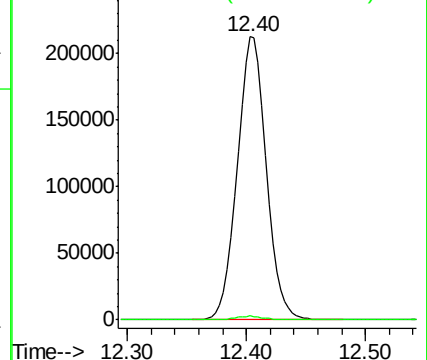
75 100

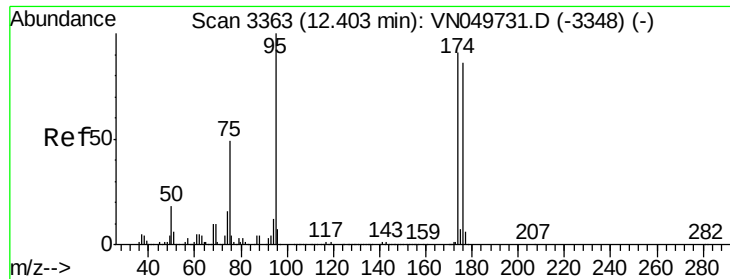
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC

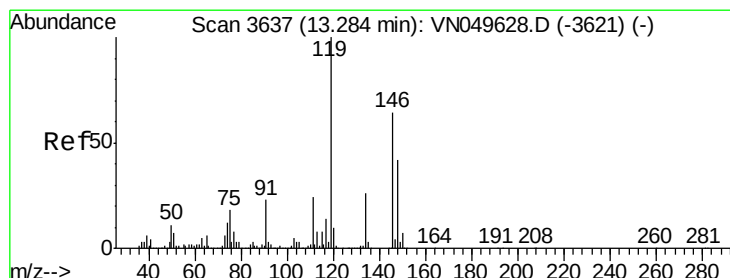
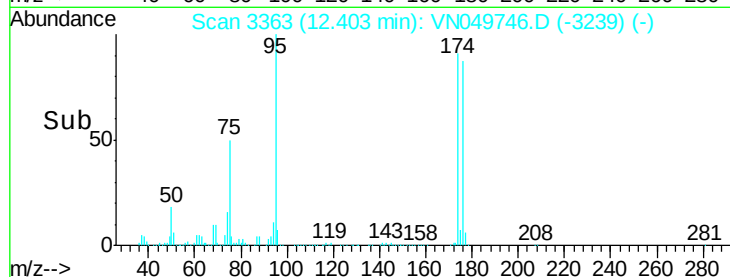
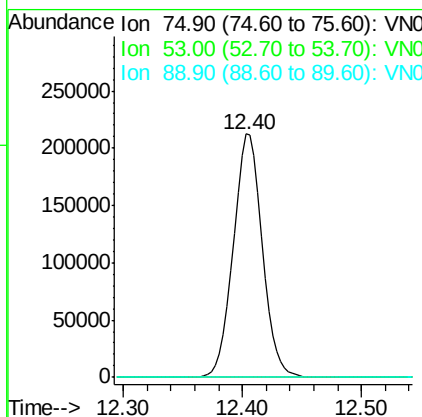
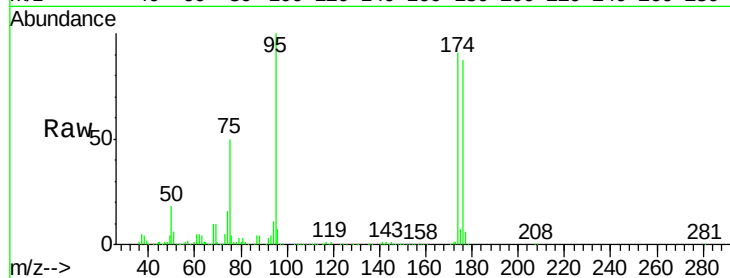




#81
trans-1,4-Dichloro-2-butene
Concen: 124.38 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.10 min
Lab File: VN049746.D
Acq: 6 Jul 2018 18:21

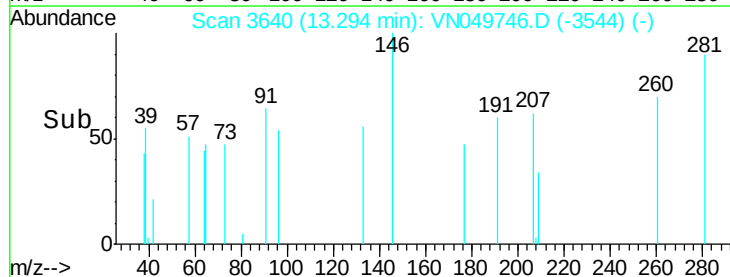
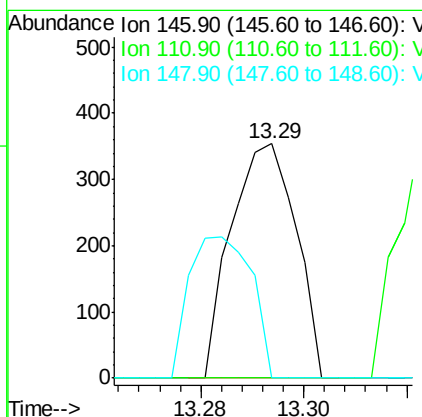
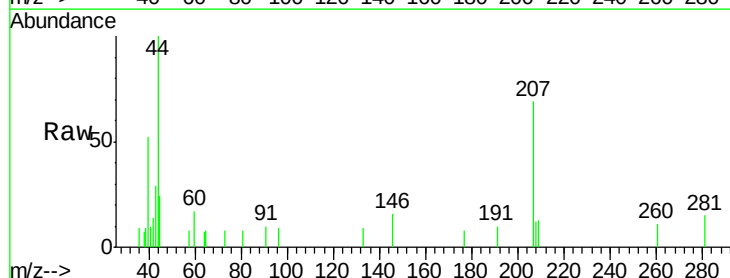
Instrument :
MSVOA_N
ClientSampled :

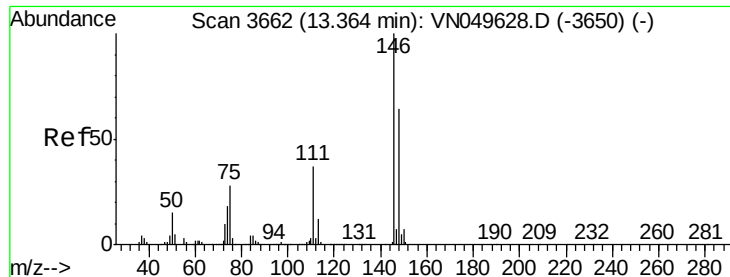
Tot Ion: 75 Resp: 358208
Ion Ratio Lower Upper
75 100
53 0.3 73.9 110.9#
89 0.0 35.9 53.9#



#87
1,3-Dichlorobenzene
Concen: Below Cal
RT: 13.29 min Scan# 3640
Delta R.T. 0.01 min
Lab File: VN049746.D
Acq: 6 Jul 2018 18:21

Tgt Ion: 146 Resp: 307
Ion Ratio Lower Upper
146 100
111 0.0 19.0 57.0#
148 58.3 32.5 97.5

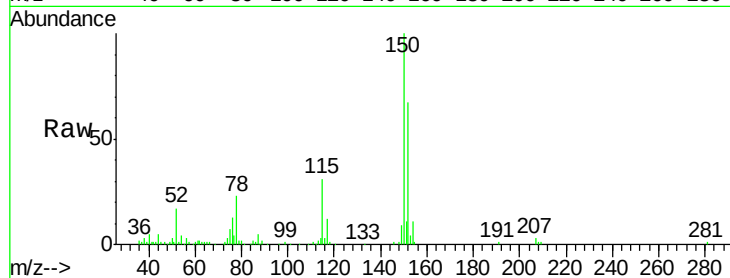




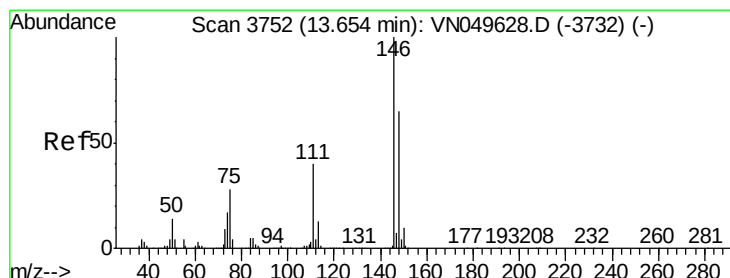
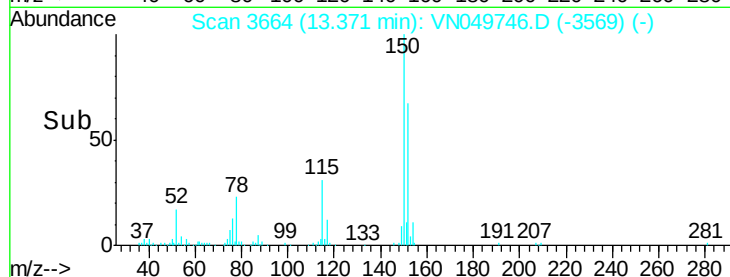
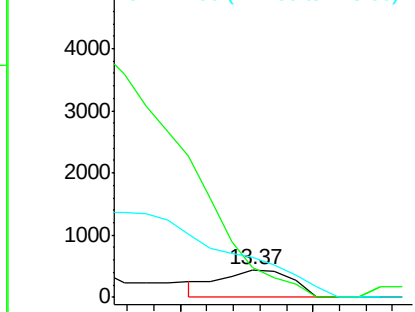
#88
 1,4-Dichlorobenzene
 Concen: Below Cal
 RT: 13.37 min Scan# 3664
 Delta R.T. 0.01 min
 Lab File: VN049746.D
 Acq: 6 Jul 2018 18:21

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	18.9	56.5#
148	0.0	32.1	96.3#

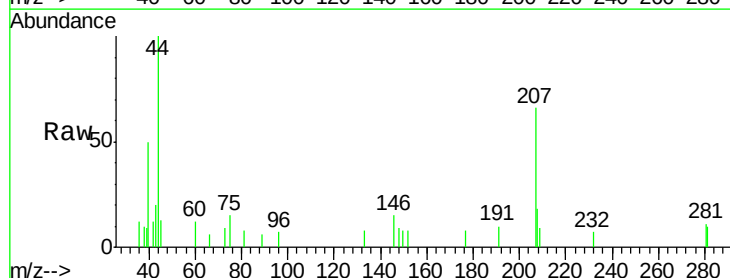


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

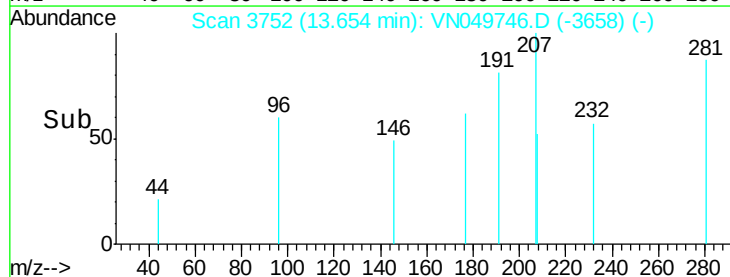
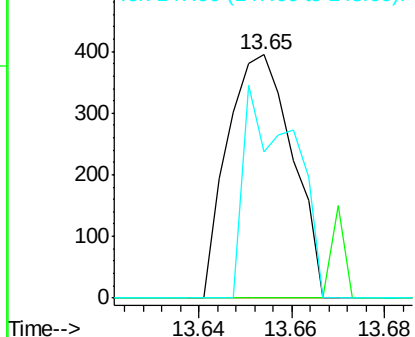


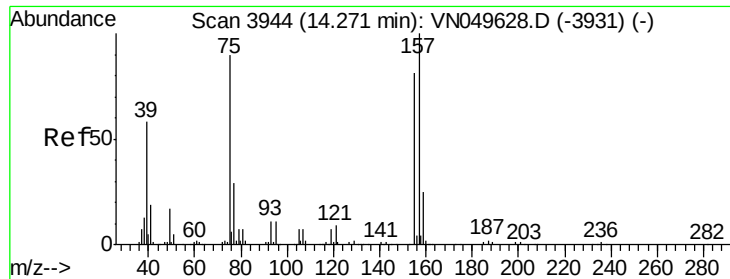
#91
 1,2-Dichlorobenzene
 Concen: Below Cal
 RT: 13.65 min Scan# 3752
 Delta R.T. 0.00 min
 Lab File: VN049746.D
 Acq: 6 Jul 2018 18:21

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	19.7	59.1#
148	66.3	32.0	96.2



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.27 min Scan# 3944

Delta R.T. 0.00 min

Lab File: VN049746.D

Acq: 6 Jul 2018 18:21

Instrument :

MSVOA_N

ClientSampled :

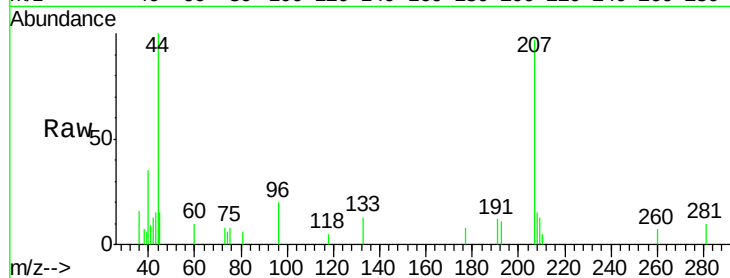
Tot Ion: 75 Resp: 254

Ion Ratio Lower Upper

75 100

155 0.0 45.7 137.1#

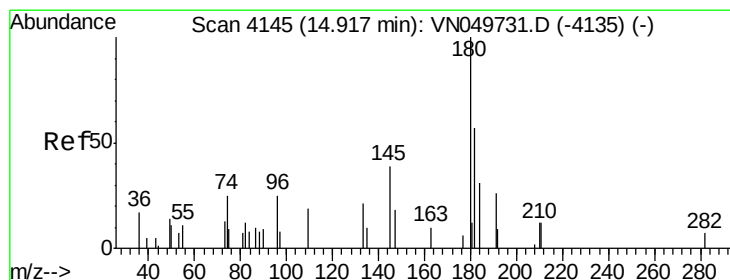
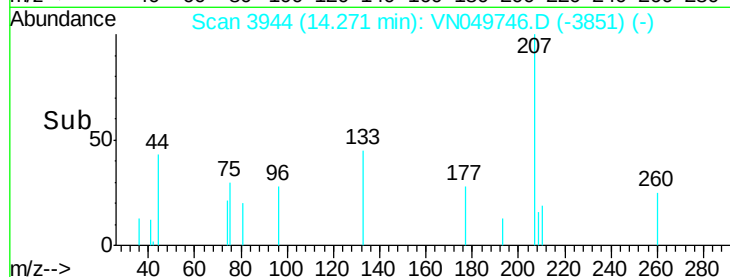
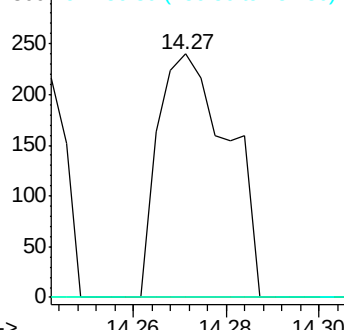
157 0.0 56.9 170.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#93

1,2,4-Trichlorobenzene

Concen: 2.41 ug/l

RT: 14.91 min Scan# 4144

Delta R.T. 0.00 min

Lab File: VN049746.D

Acq: 6 Jul 2018 18:21

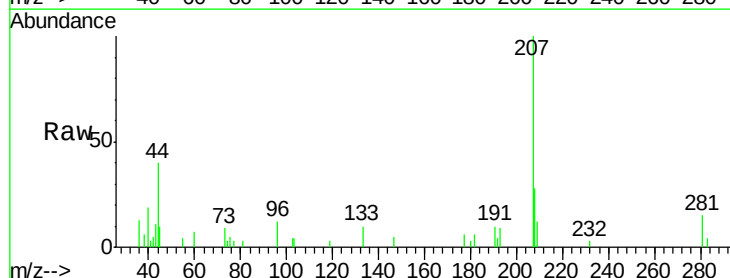
Tgt Ion: 180 Resp: 35

Ion Ratio Lower Upper

180 100

182 1194.3 47.3 141.9#

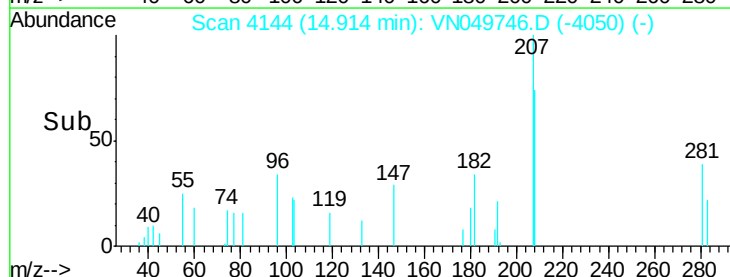
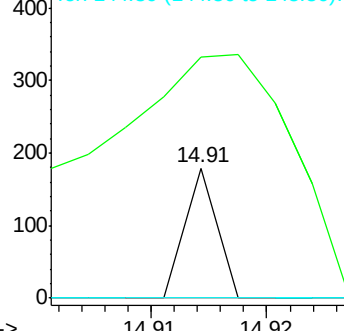
145 0.0 14.4 43.0#

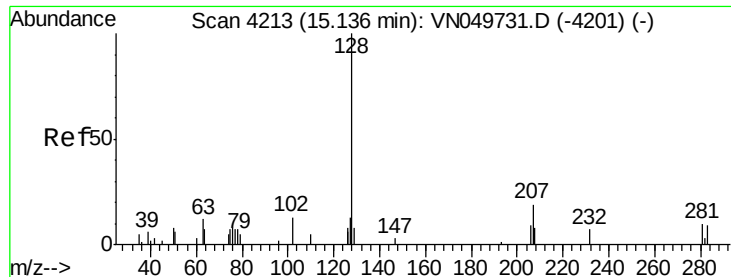


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 4.09 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

Lab File: VN049746.D

Acq: 6 Jul 2018 18:21

Instrument :

MSVOA_N

ClientSampled :

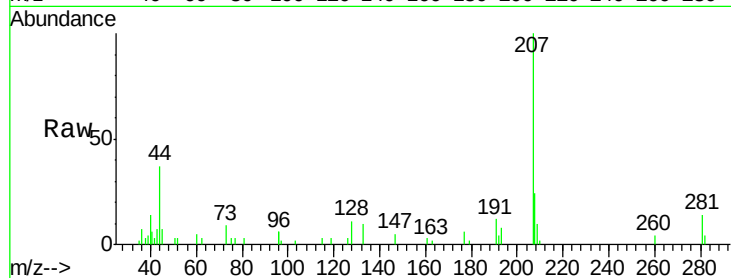
Tot Ion:128 Resp: 1421

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

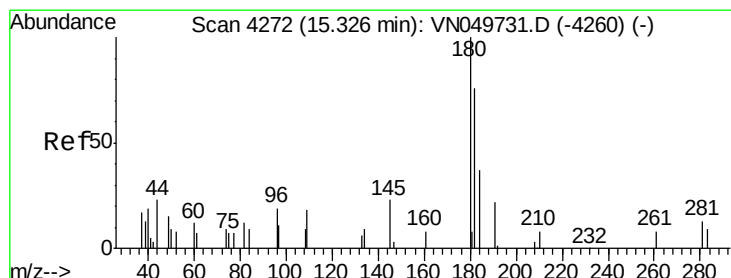
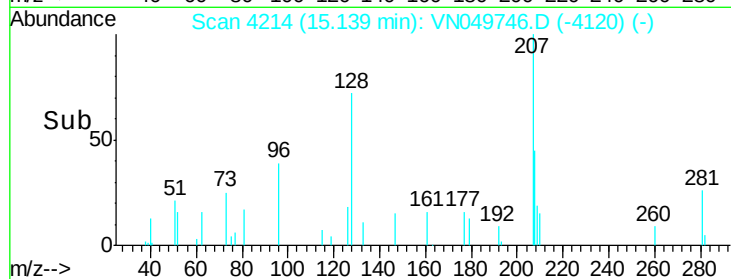
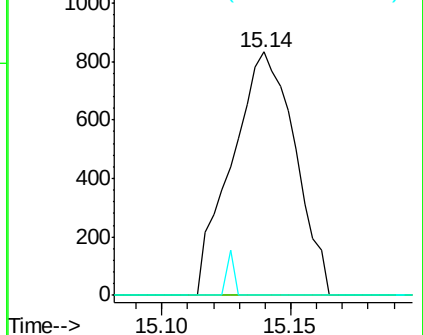
129 2.1 8.6 13.0#



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



#96

1,2,3-Trichlorobenzene

Concen: 1.68 ug/l

RT: 15.32 min Scan# 4271

Delta R.T. 0.01 min

Lab File: VN049746.D

Acq: 6 Jul 2018 18:21

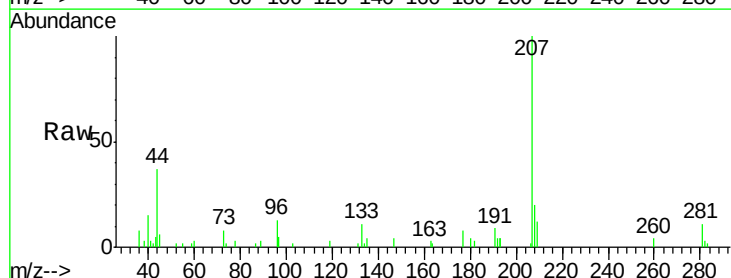
Tgt Ion:180 Resp: 316

Ion Ratio Lower Upper

180 100

182 62.0 47.4 142.2

145 0.0 15.2 45.6#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

