

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081018\
 Data File : VN050510.D
 Acq On : 10 Aug 2018 12:04
 Operator : MD\SY
 Sample : J4420-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB

Quant Time: Aug 10 23:14:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 05:22:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	764305	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1183534	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1020296	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	378091	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	492396	48.22	ug/l	0.00
Spiked Amount			Recovery	=	96.44%	
35) Dibromofluoromethane	7.59	113	466071	49.08	ug/l	0.00
Spiked Amount			Recovery	=	98.16%	
50) Toluene-d8	10.09	98	1651511	46.25	ug/l	0.00
Spiked Amount			Recovery	=	92.50%	
62) 4-Bromofluorobenzene	12.40	95	450456	37.02	ug/l	0.00
Spiked Amount			Recovery	=	74.04%	

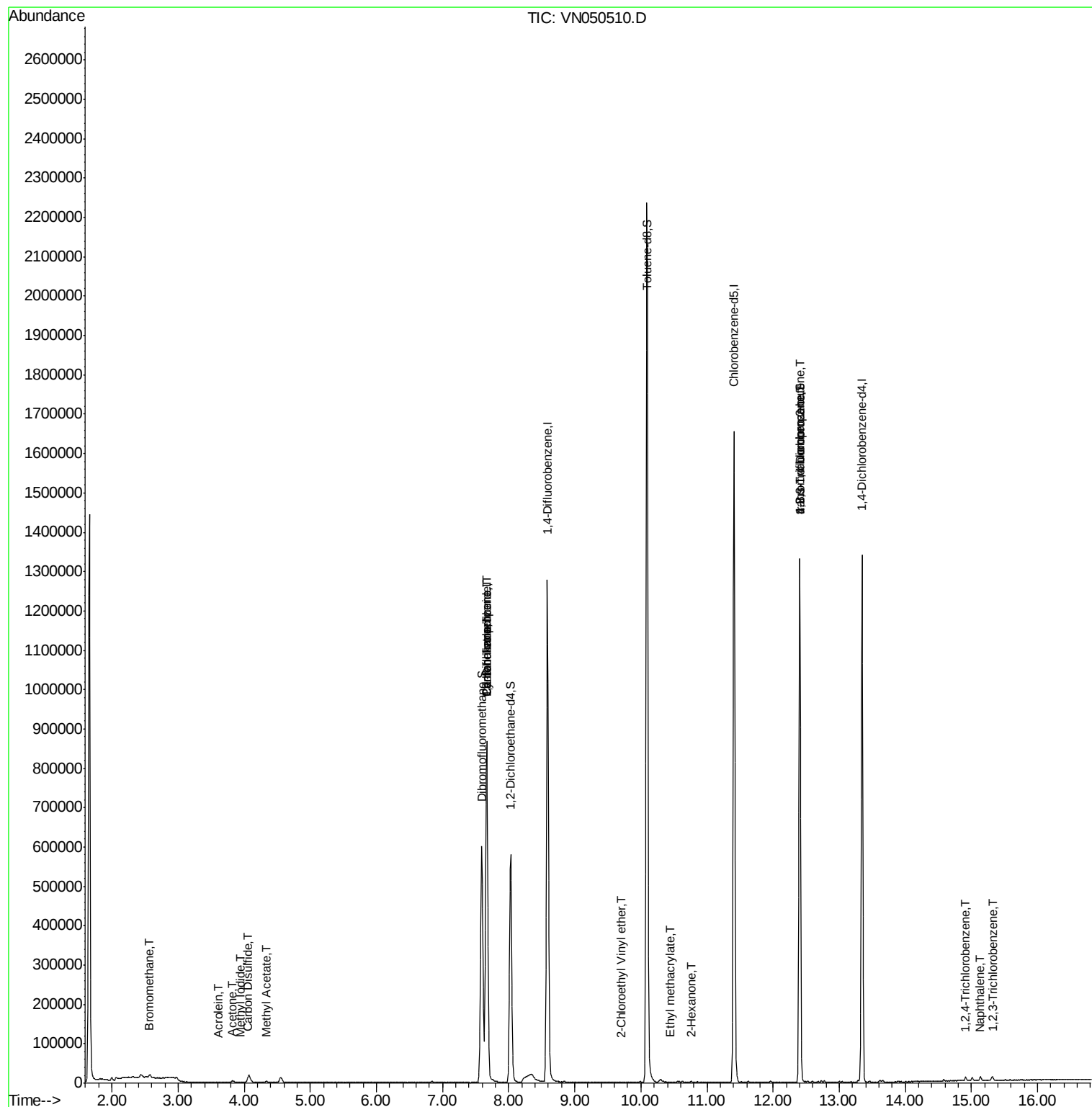
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	3643	Below Cal	#	80
5) Bromomethane	2.57	94	4758	1.06	ug/l	91
10) Methyl Iodide	3.96	142	1988	0.51	ug/l	# 61
13) Acrolein	3.62	56	108	15.12	ug/l	# 8
16) Acetone	3.82	43	7999	2.27	ug/l	97
17) Carbon Disulfide	4.05	76	5978	0.22	ug/l	# 91
18) Methyl Acetate	4.33	43	5207	0.47	ug/l	# 88
20) Methylene Chloride	4.55	84	9729	Below Cal		88
31) Cyclohexane	7.67	56	13767	0.31	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	51591	3.97	ug/l	# 48
38) Carbon Tetrachloride	7.67	117	67503	4.98	ug/l	# 16
56) Ethyl methacrylate	10.43	69	90	1.72	ug/l	# 3
58) 2-Chloroethyl Vinyl ether	9.70	63	62	7.40	ug/l	# 48
59) 2-Hexanone	10.76	43	2440	0.30	ug/l	76
76) 1,2,3-Trichloropropane	12.40	75	213521	31.20	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	213521	109.62	ug/l	# 13
93) 1,2,4-Trichlorobenzene	14.91	180	3476	0.50	ug/l	98
94) Hexachlorobutadiene	15.01	225	2007	Below Cal		93
95) Naphthalene	15.13	128	8080	4.03	ug/l	98
96) 1,2,3-Trichlorobenzene	15.32	180	3893	0.56	ug/l	96

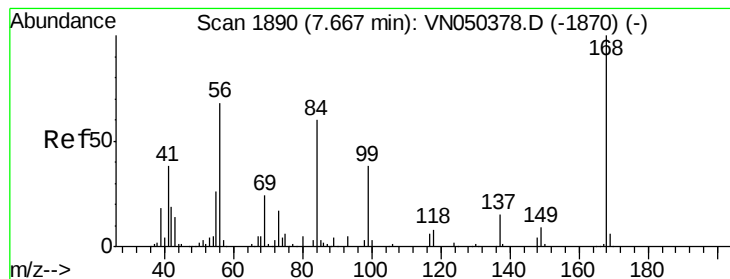
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Aug 07 05:22:15 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN050510.D

Acq: 10 Aug 2018 12:04

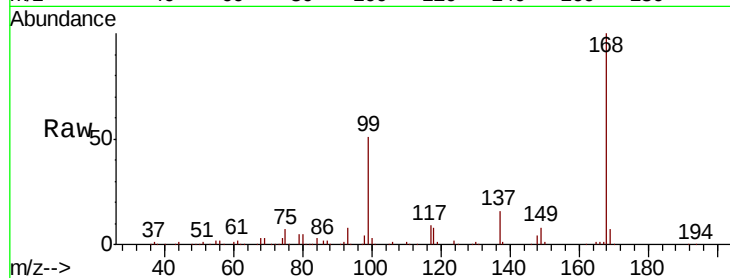
Instrument :
MSVOA_N
ClientSampleId :
TB

Tot Ion:168 Resp: 764305

Ion Ratio Lower Upper

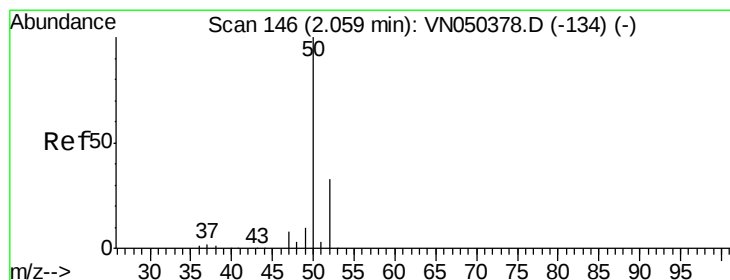
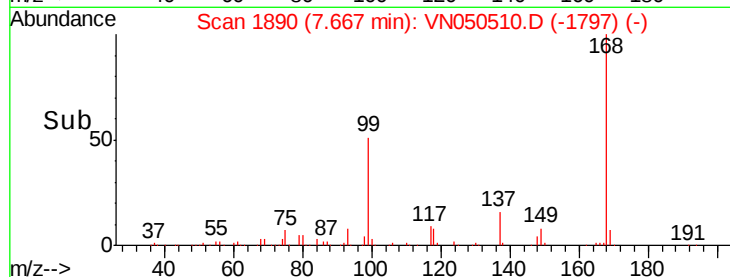
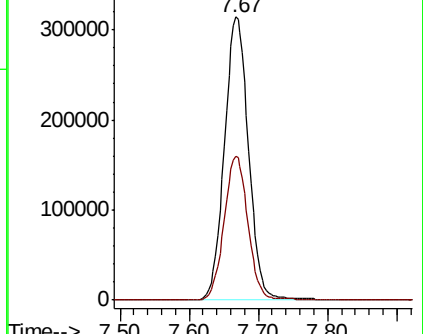
168 100

99 50.9 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050510.D

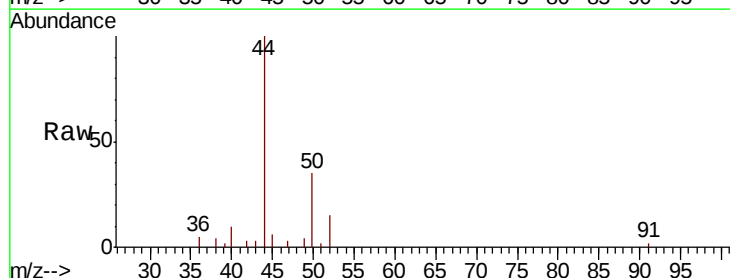
Acq: 10 Aug 2018 12:04

Tgt Ion: 50 Resp: 3643

Ion Ratio Lower Upper

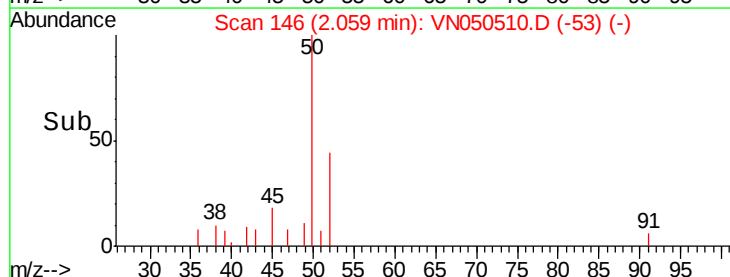
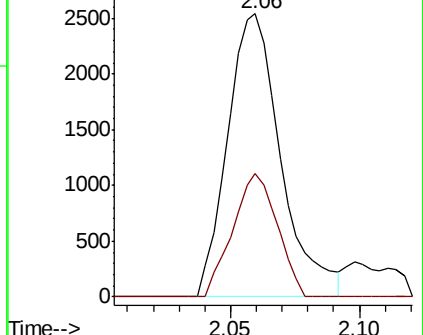
50 100

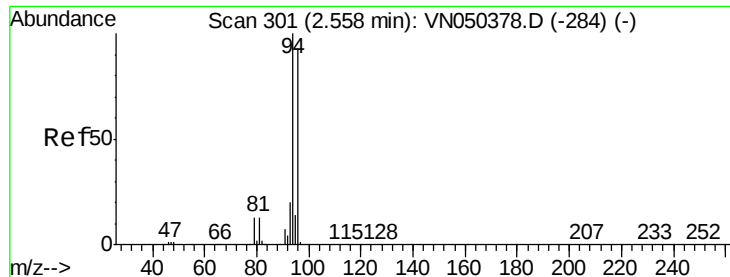
52 43.8 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0





#5

Bromomethane

Concen: 1.06 ug/l

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN050510.D

Acq: 10 Aug 2018 12:04

Instrument :

MSVOA_N

ClientSampled :

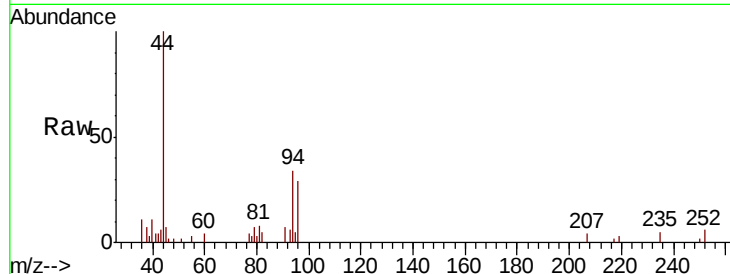
TB

Tot Ion: 94 Resp: 4758

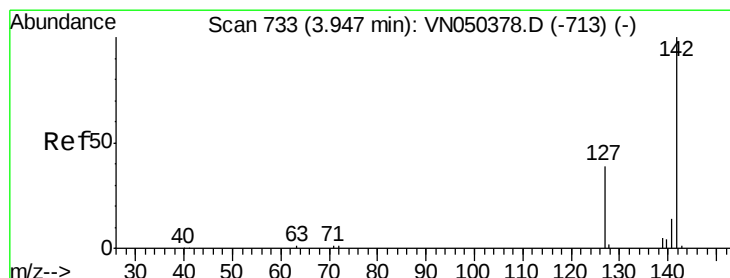
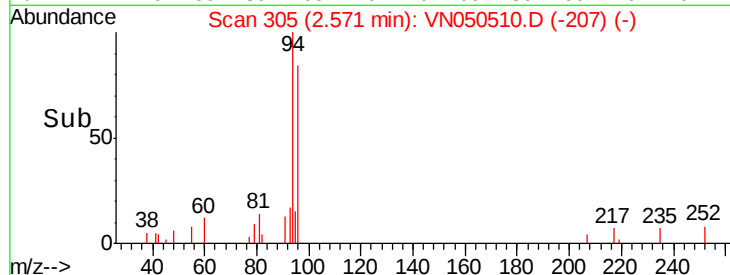
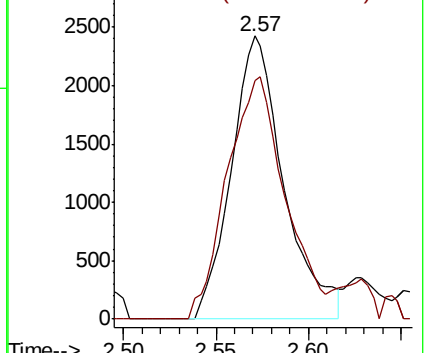
Ion Ratio Lower Upper

94 100

96 84.4 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN050510.D (-207) (-)



#10

Methyl Iodide

Concen: 0.51 ug/l

RT: 3.96 min Scan# 736

Delta R.T. 0.01 min

Lab File: VN050510.D

Acq: 10 Aug 2018 12:04

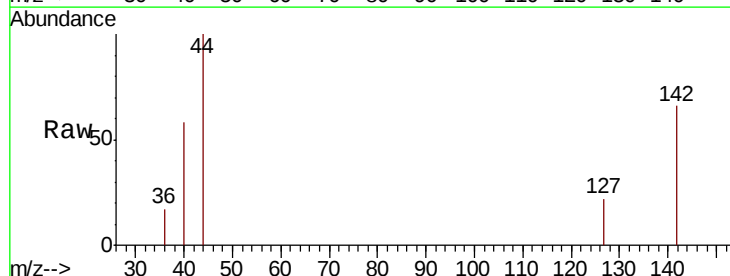
Tgt Ion: 142 Resp: 1988

Ion Ratio Lower Upper

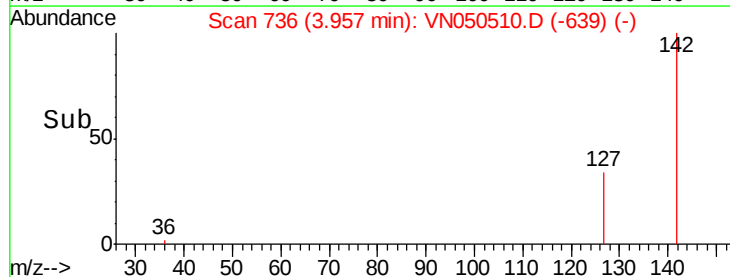
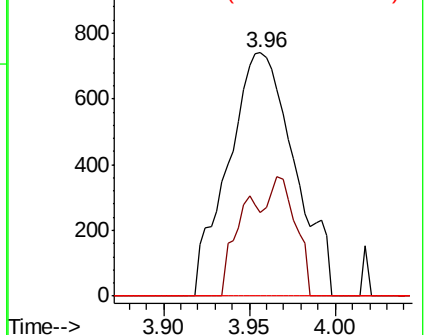
142 100

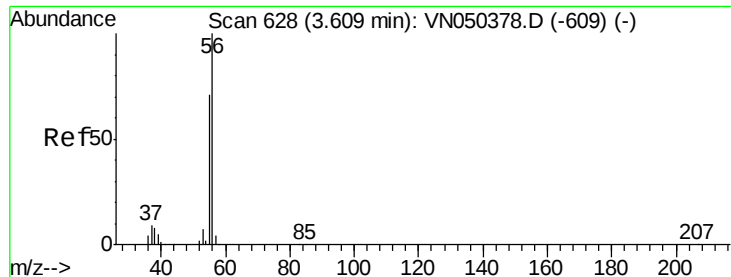
127 16.0 33.4 50.2#

141 0.0 11.6 17.4#



Abundance Ion 141.80 (141.50 to 142.50): VN050510.D (-639) (-)





#13

Acrolein

Concen: 15.12 ug/l

RT: 3.62 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN050510.D

Acq: 10 Aug 2018 12:04

Instrument :

MSVOA_N

ClientSampled :

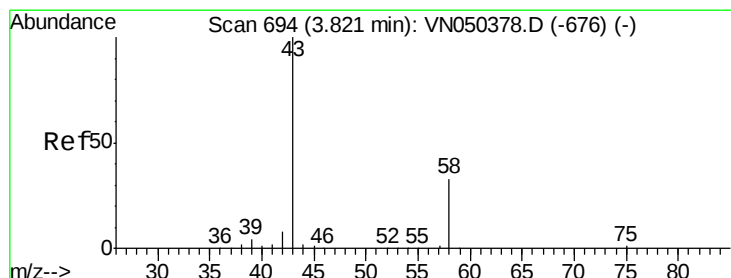
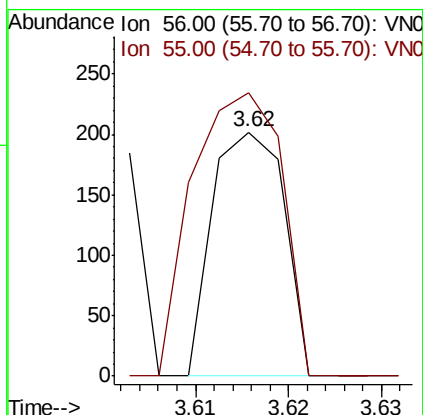
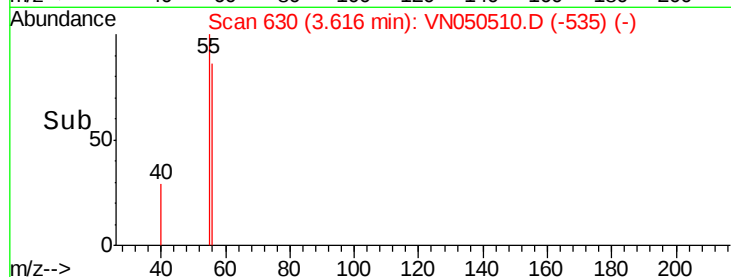
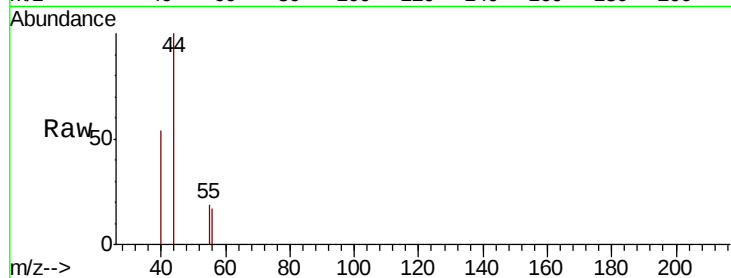
TB

Tot Ion: 56 Resp: 108

Ion Ratio Lower Upper

56 100

55 145.4 55.8 83.6#



#16

Acetone

Concen: 2.27 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN050510.D

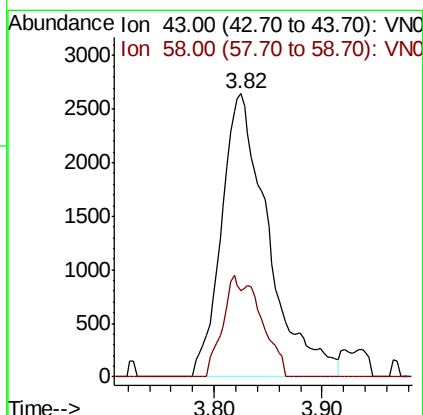
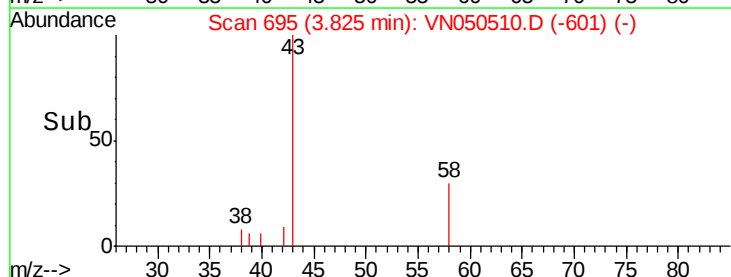
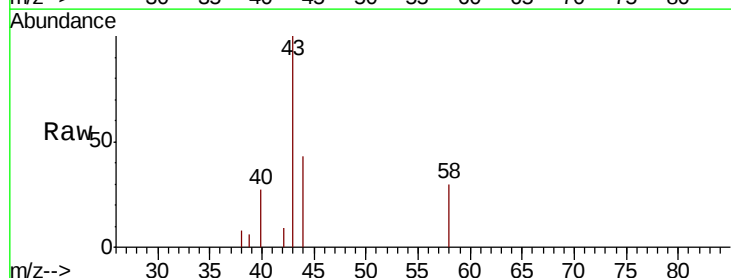
Acq: 10 Aug 2018 12:04

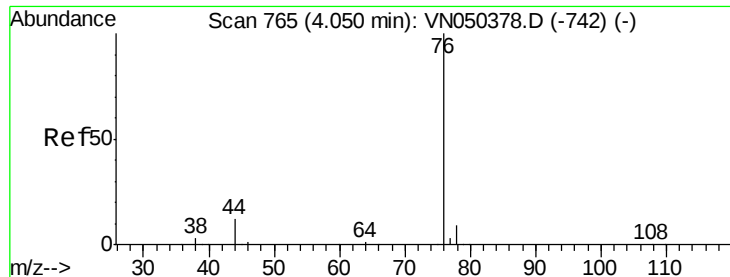
Tgt Ion: 43 Resp: 7999

Ion Ratio Lower Upper

43 100

58 30.5 25.8 38.8





#17

Carbon Disulfide

Concen: 0.22 ug/l

RT: 4.05 min Scan# 765

Delta R.T. 0.00 min

Lab File: VN050510.D

Acq: 10 Aug 2018 12:04

Instrument :

MSVOA_N

ClientSampled :

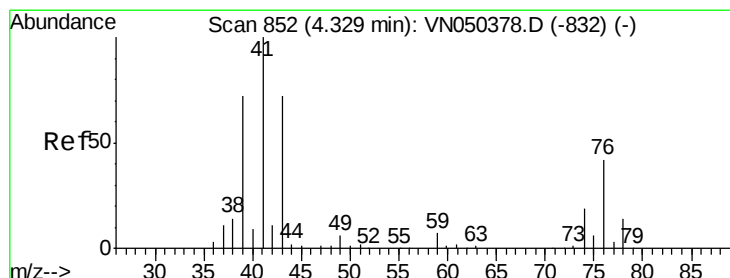
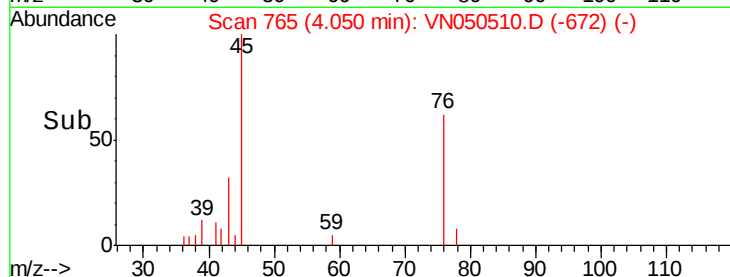
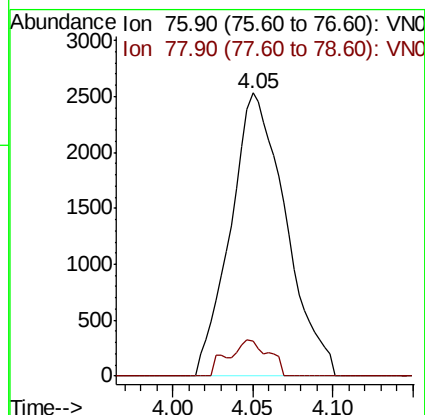
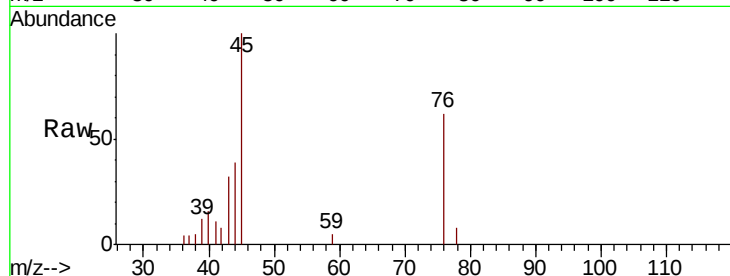
TB

Tot Ion: 76 Resp: 5978

Ion Ratio Lower Upper

76 100

78 12.4 7.3 10.9#



#18

Methyl Acetate

Concen: 0.47 ug/l

RT: 4.33 min Scan# 852

Delta R.T. 0.00 min

Lab File: VN050510.D

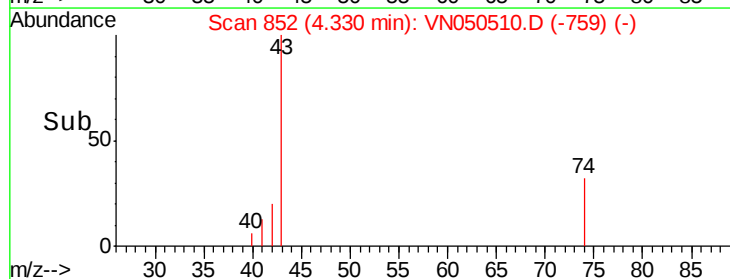
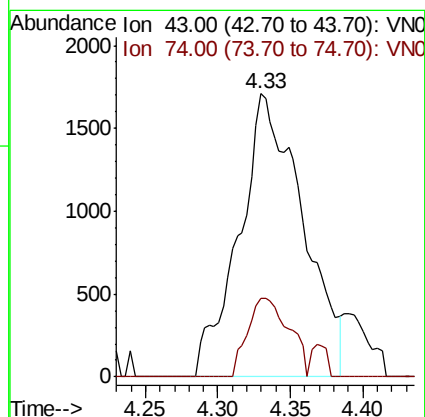
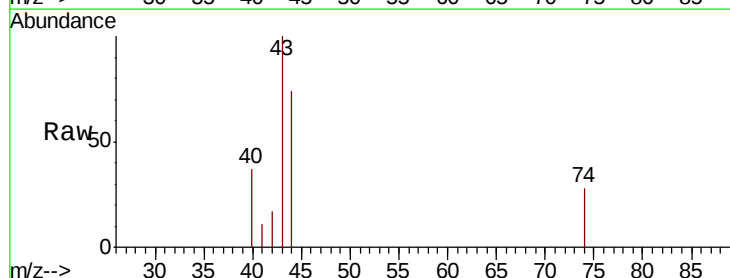
Acq: 10 Aug 2018 12:04

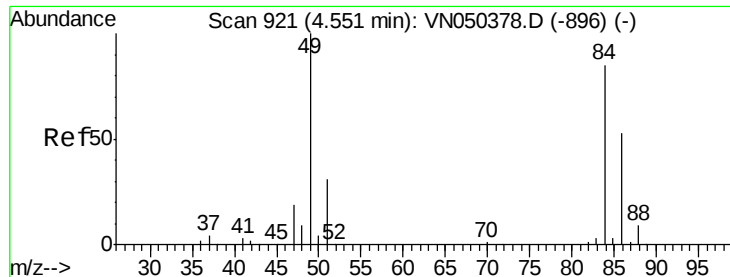
Tgt Ion: 43 Resp: 5207

Ion Ratio Lower Upper

43 100

74 18.1 19.2 28.8#

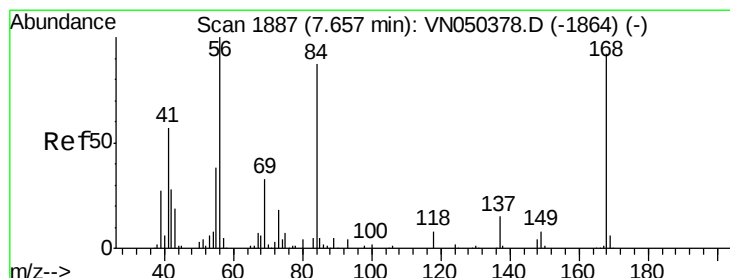
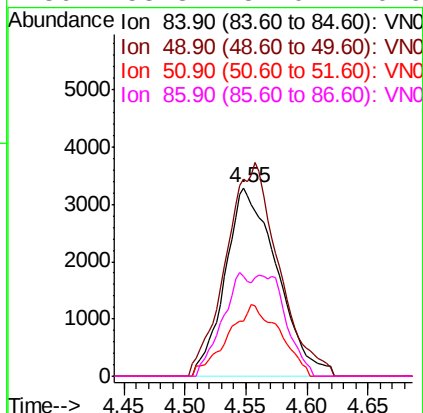
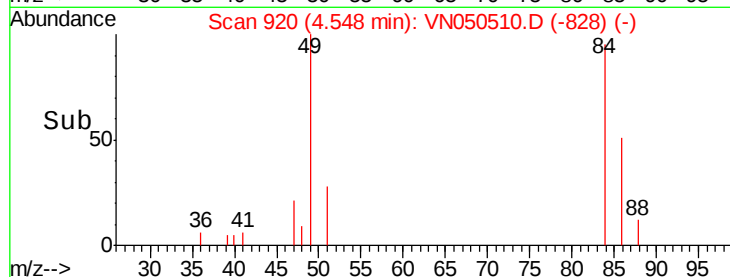
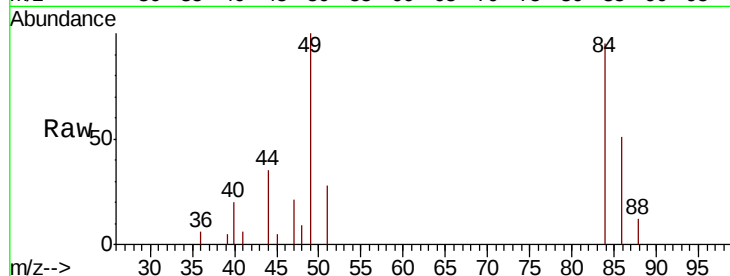




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 920
Delta R.T. -0.00 min
Lab File: VN050510.D
Acq: 10 Aug 2018 12:04

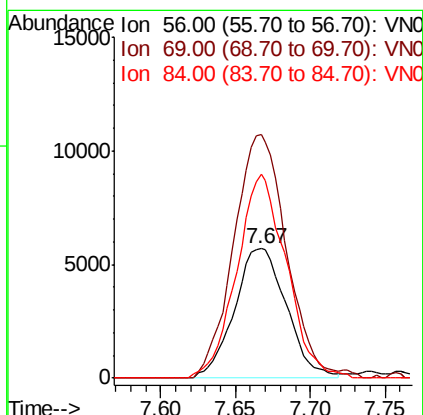
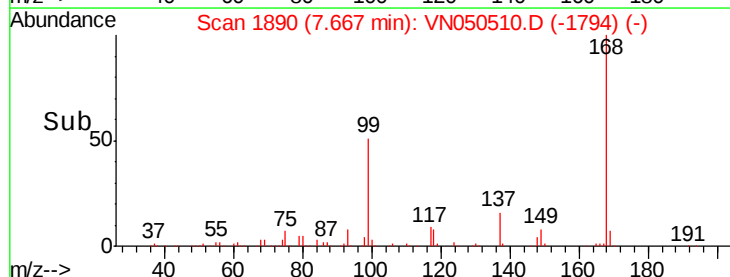
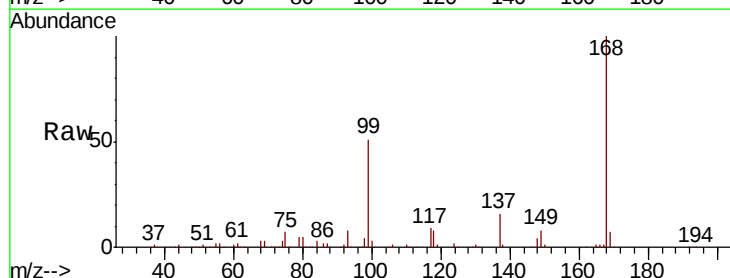
Instrument :
MSVOA_N
ClientSampled :
TB

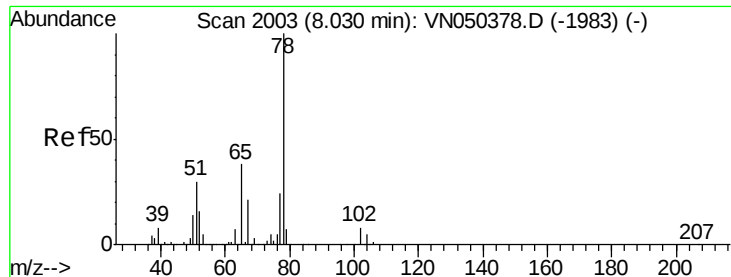
Tot Ion:	84	Resp:	9729
Ion	Ratio	Lower	Upper
84	100		
49	104.8	94.8	142.2
51	29.5	28.3	42.5
86	53.3	51.0	76.6



#31
Cyclohexane
Concen: 0.31 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN050510.D
Acq: 10 Aug 2018 12:04

Tgt Ion:	56	Resp:	13767
Ion	Ratio	Lower	Upper
56	100		
69	188.7	26.2	39.4#
84	158.0	67.4	101.0#





#33

1,2-Dichloroethane-d4

Concen: 48.22 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050510.D

Acq: 10 Aug 2018 12:04

Instrument :

MSVOA_N

ClientSampleId :

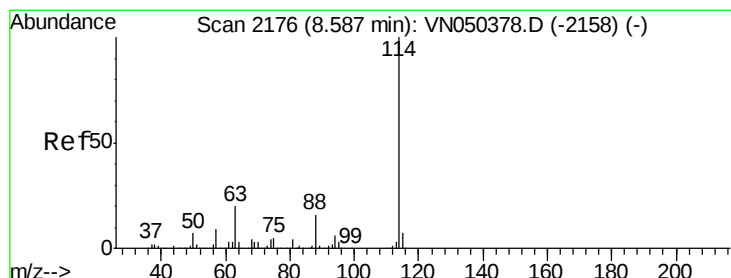
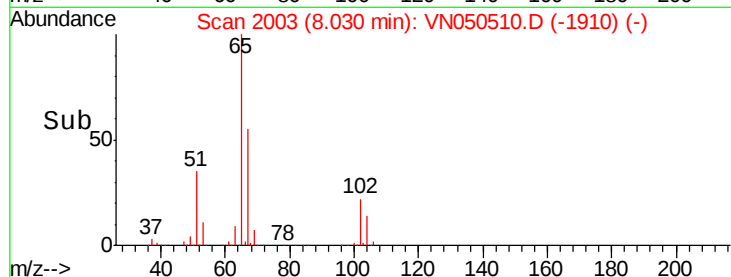
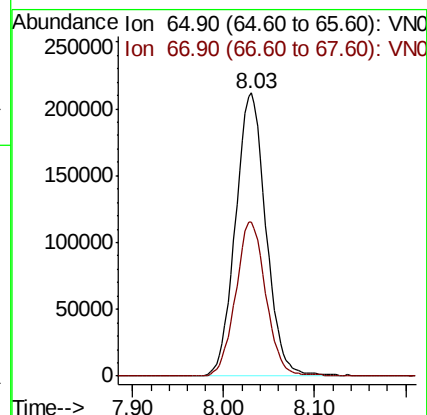
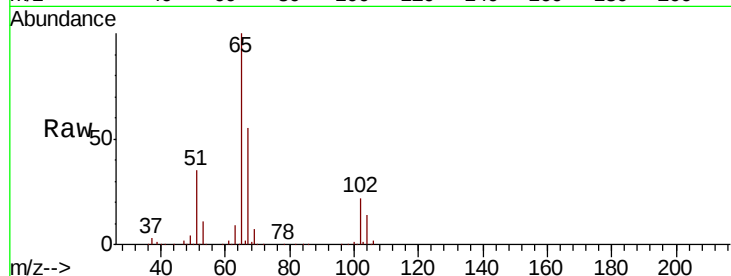
TB

Tot Ion: 65 Resp: 492396

Ion Ratio Lower Upper

65 100

67 54.2 0.0 108.4



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VN050510.D

Acq: 10 Aug 2018 12:04

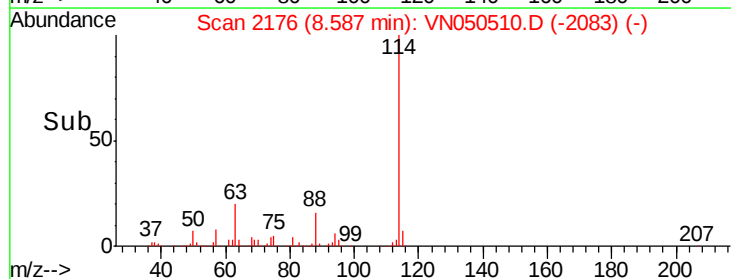
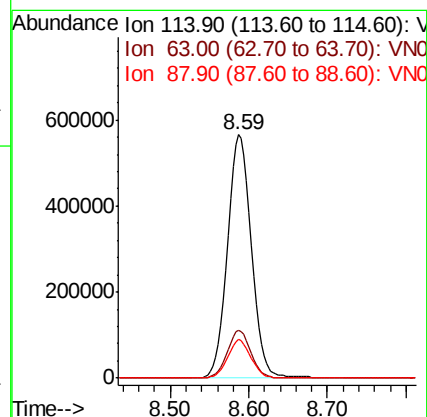
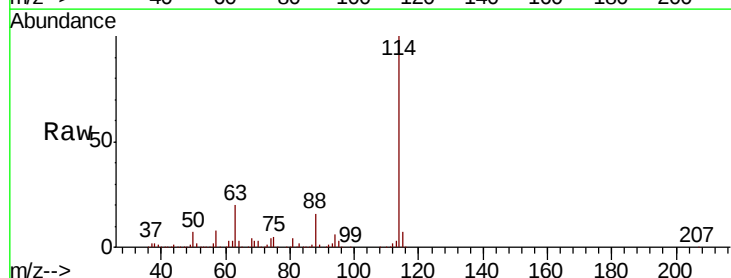
Tgt Ion: 114 Resp: 1183534

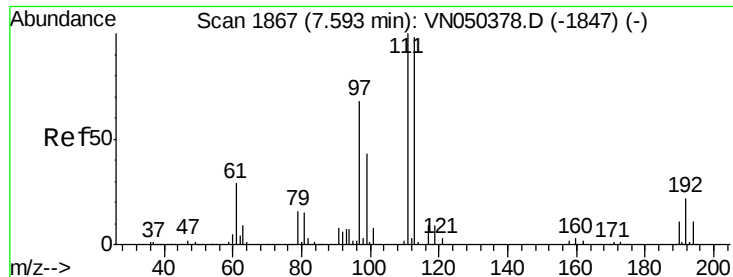
Ion Ratio Lower Upper

114 100

63 19.8 0.0 40.0

88 15.8 0.0 31.2

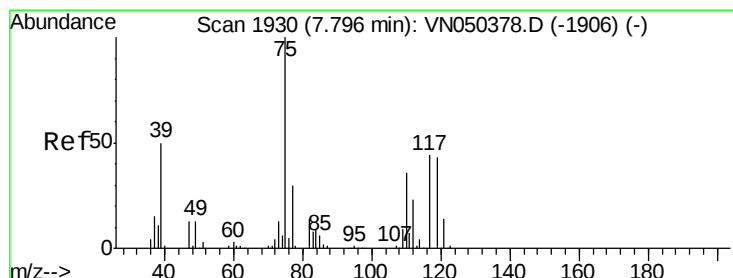
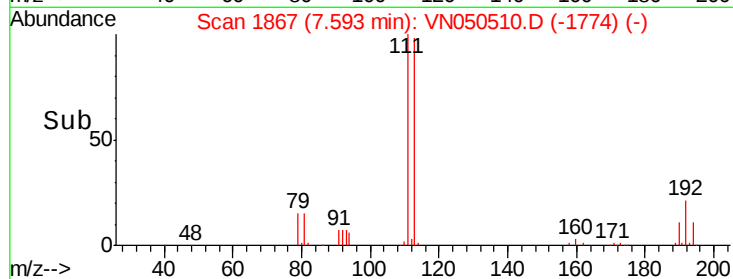
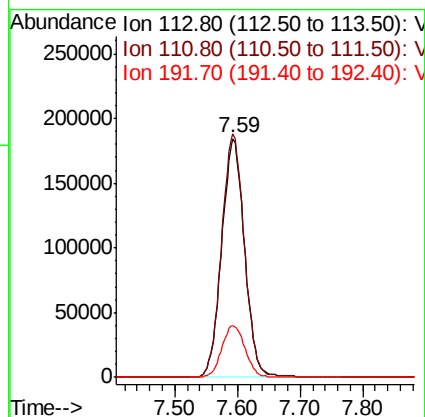
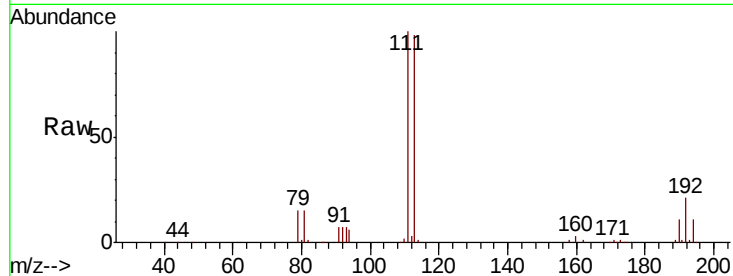




#35
 Dibromofluoromethane
 Concen: 49.08 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050510.D
 Acq: 10 Aug 2018 12:04

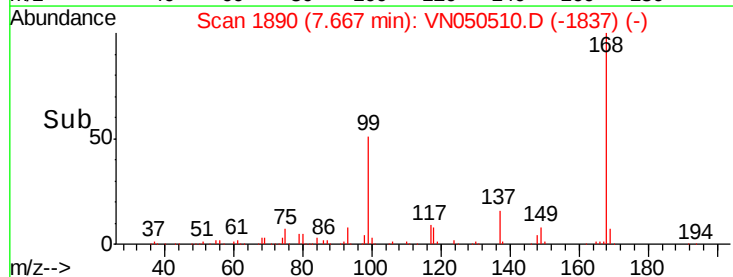
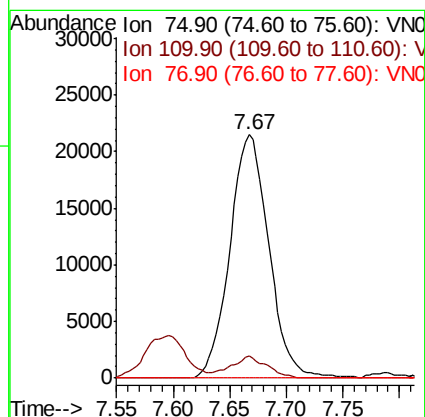
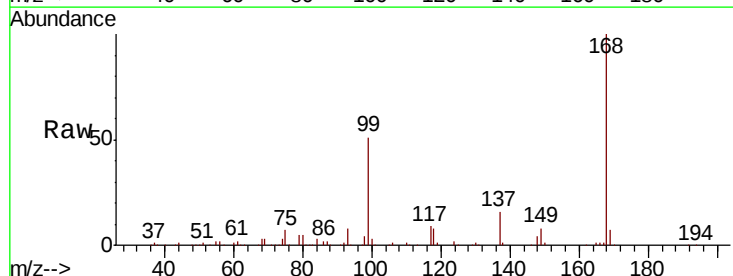
Instrument :
 MSVOA_N
 ClientSampleId :
 TB

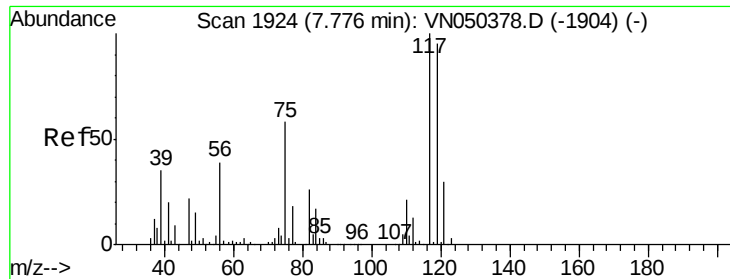
Tot Ion:113 Resp: 466071
 Ion Ratio Lower Upper
 113 100
 111 102.0 80.7 121.1
 192 22.0 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.97 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050510.D
 Acq: 10 Aug 2018 12:04

Tgt Ion: 75 Resp: 51591
 Ion Ratio Lower Upper
 75 100
 110 8.4 18.4 55.2#
 77 0.0 25.3 37.9#

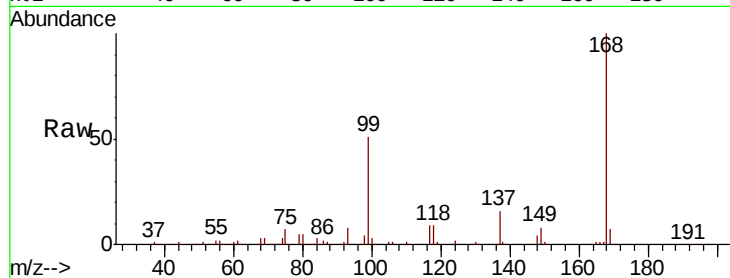




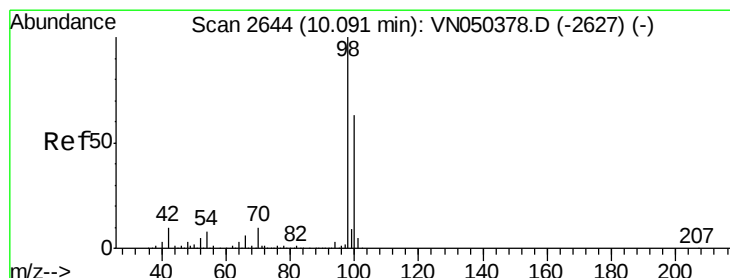
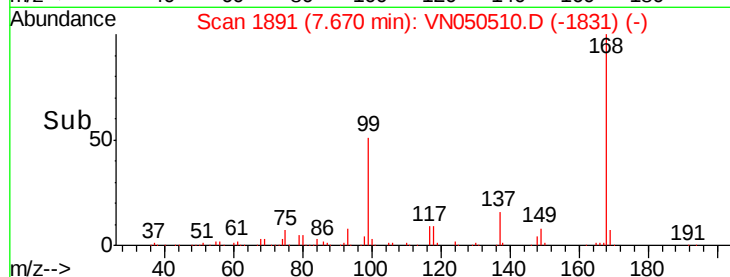
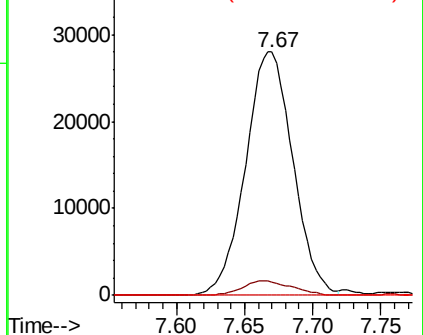
#38
Carbon Tetrachloride
Concen: 4.98 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN050510.D
Acq: 10 Aug 2018 12:04

Instrument :
MSVOA_N
ClientSampled :
TB

Tot Ion:117 Resp: 67503
Ion Ratio Lower Upper
117 100
119 5.6 77.4 116.0#
121 0.0 23.9 35.9#

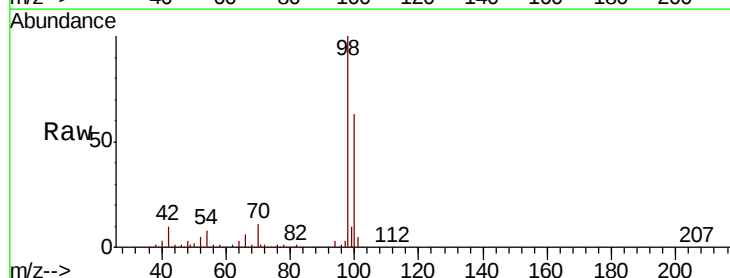


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

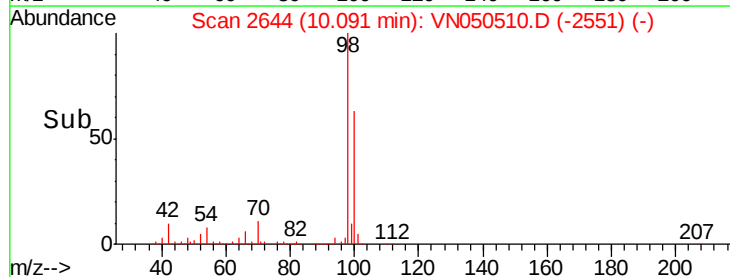
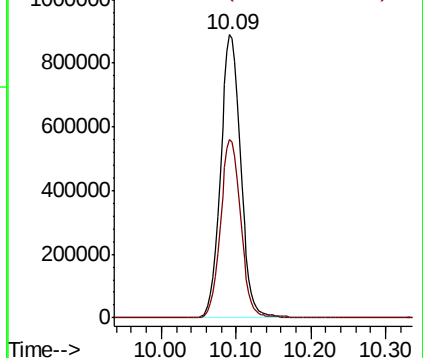


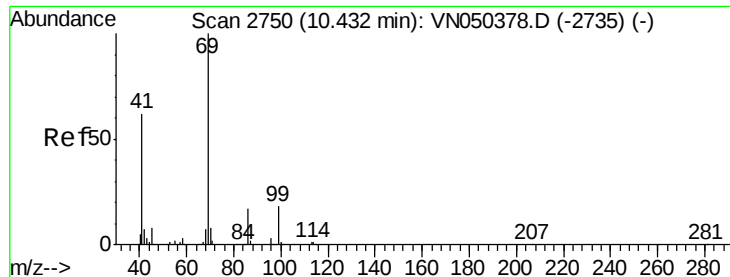
#50
Toluene-d8
Concen: 46.25 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN050510.D
Acq: 10 Aug 2018 12:04

Tgt Ion: 98 Resp: 1651511
Ion Ratio Lower Upper
98 100
100 63.4 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN
Ion 100.00 (99.70 to 100.70): VN





#56

Ethyl methacrylate

Concen: 1.72 ug/l

RT: 10.43 min Scan# 2750

Delta R.T. 0.00 min

Lab File: VN050510.D

Acq: 10 Aug 2018 12:04

Instrument :

MSVOA_N

ClientSampleId :

TB

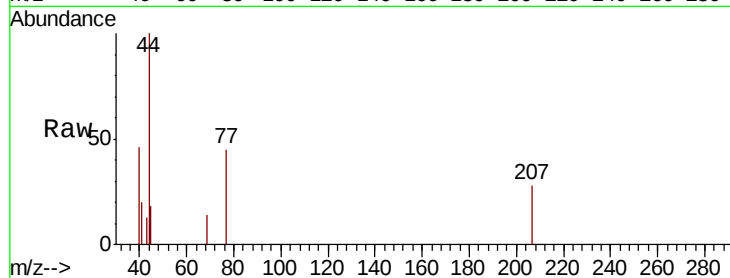
Tot Ion: 69 Resp: 90

Ion Ratio Lower Upper

69 100

41 126.7 51.0 76.4#

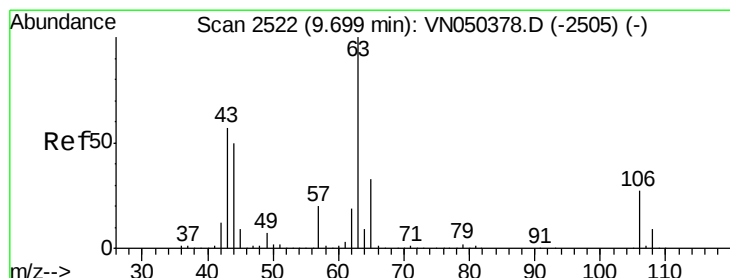
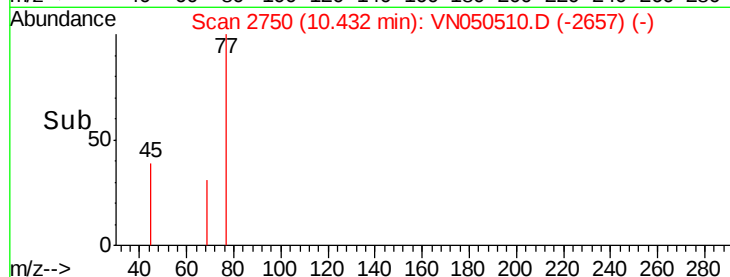
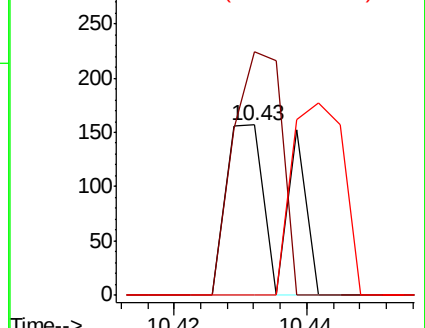
39 106.7 26.6 40.0#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 7.40 ug/l

RT: 9.70 min Scan# 2522

Delta R.T. 0.00 min

Lab File: VN050510.D

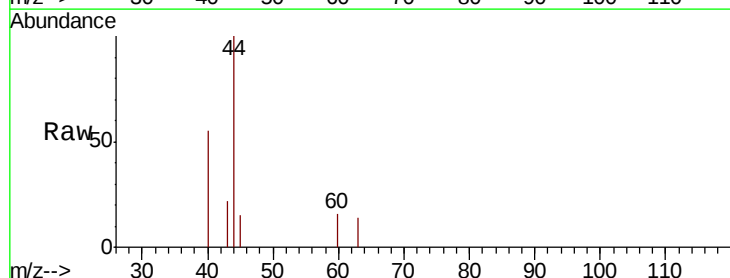
Acq: 10 Aug 2018 12:04

Tgt Ion: 63 Resp: 62

Ion Ratio Lower Upper

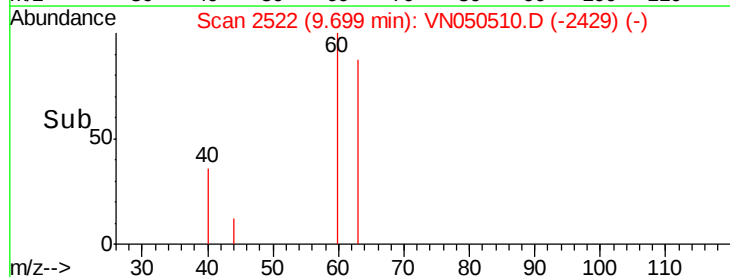
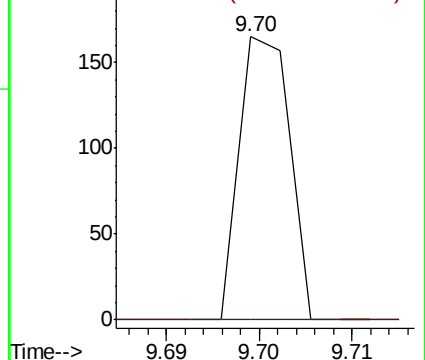
63 100

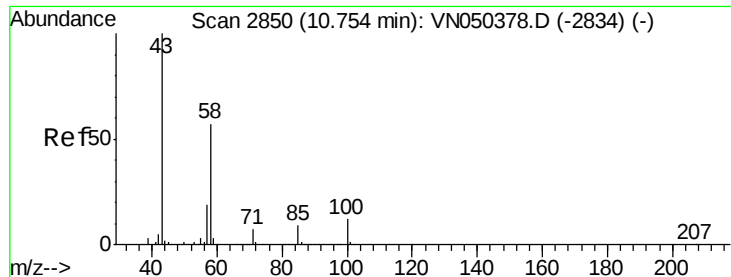
106 0.0 21.7 32.5#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

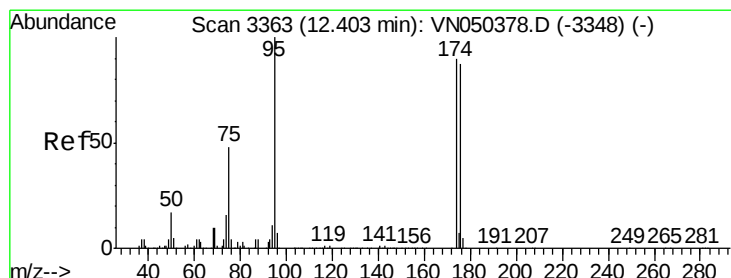
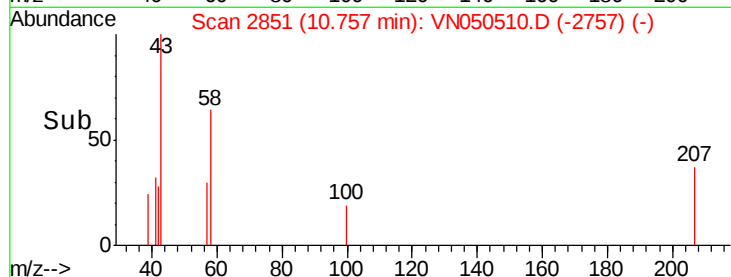
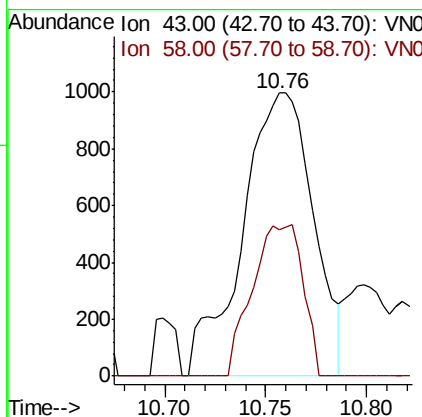
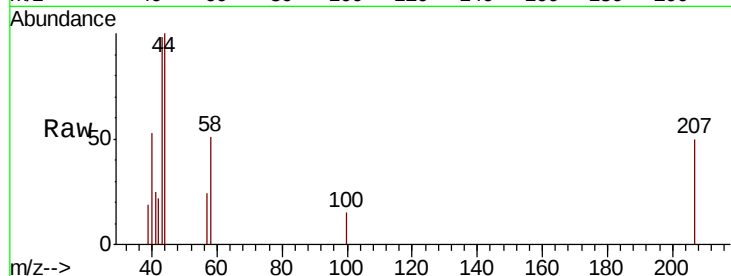




#59
2-Hexanone
Concen: 0.30 ug/l
RT: 10.76 min Scan# 2851
Delta R.T. 0.00 min
Lab File: VN050510.D
Acq: 10 Aug 2018 12:04

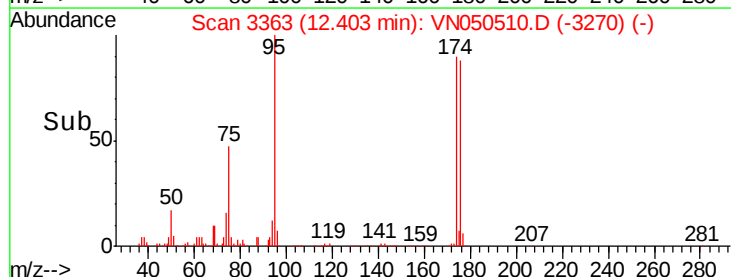
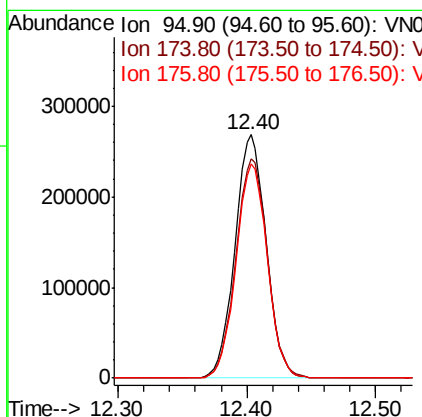
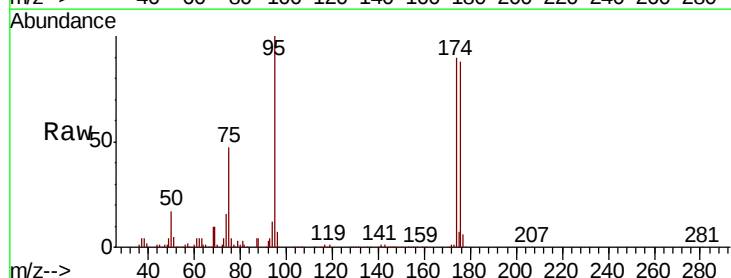
Instrument :
MSVOA_N
ClientSampled :
TB

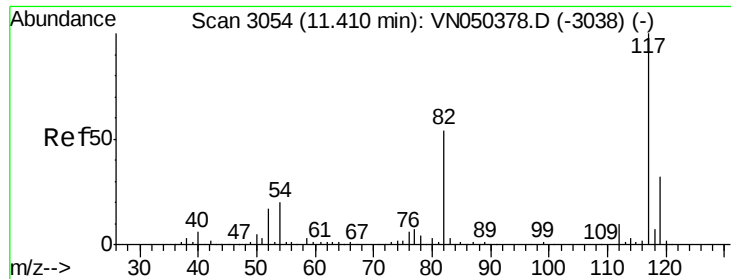
Tot Ion: 43 Resp: 2440
Ion Ratio Lower Upper
43 100
58 38.1 27.6 82.7



#62
4-Bromofluorobenzene
Concen: 37.02 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050510.D
Acq: 10 Aug 2018 12:04

Tgt Ion: 95 Resp: 450456
Ion Ratio Lower Upper
95 100
174 91.7 0.0 178.2
176 88.2 0.0 173.4

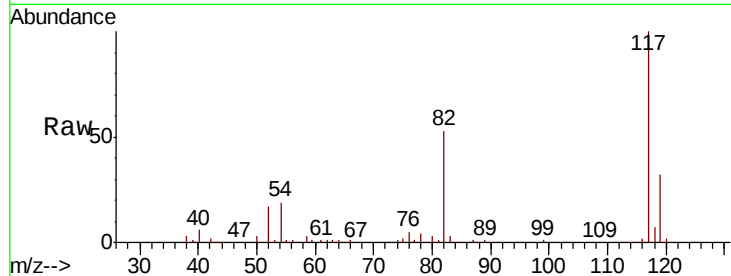




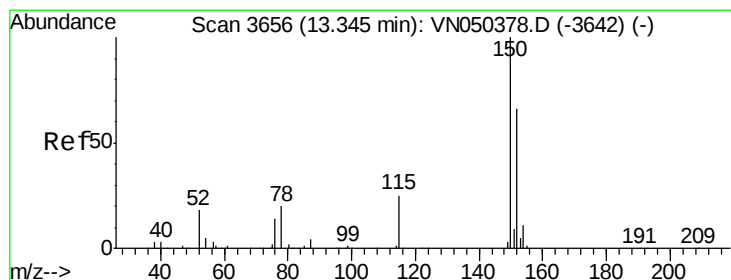
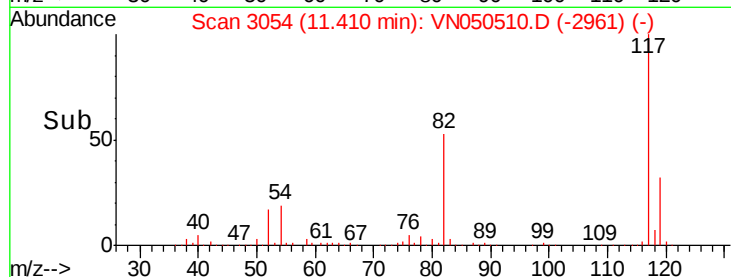
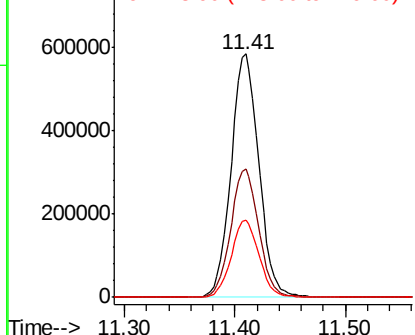
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050510.D
Acq: 10 Aug 2018 12:04

Instrument :
MSVOA_N
ClientSampled :
TB

Tot Ion:117 Resp: 1020296
Ion Ratio Lower Upper
117 100
82 52.7 43.7 65.5
119 31.9 26.1 39.1

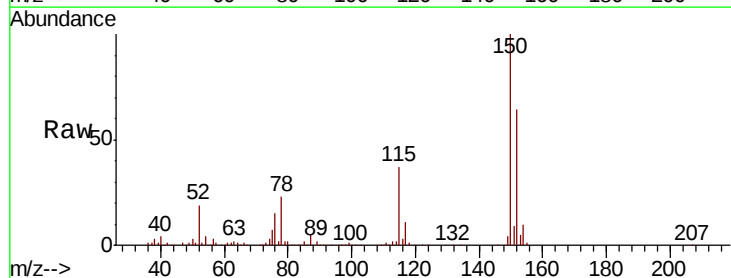


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

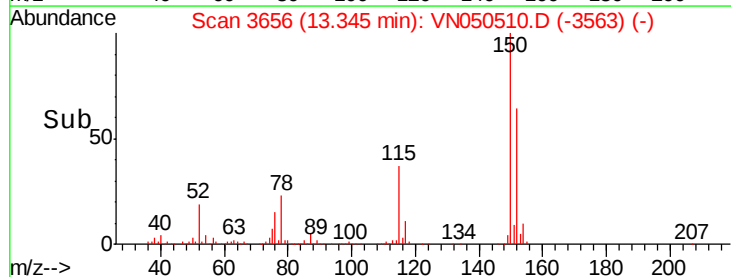
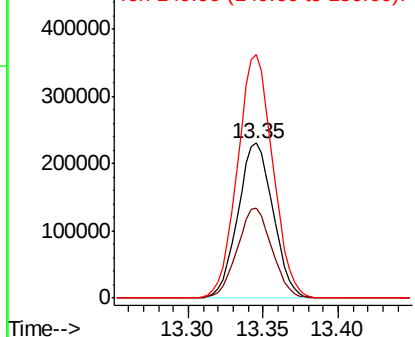


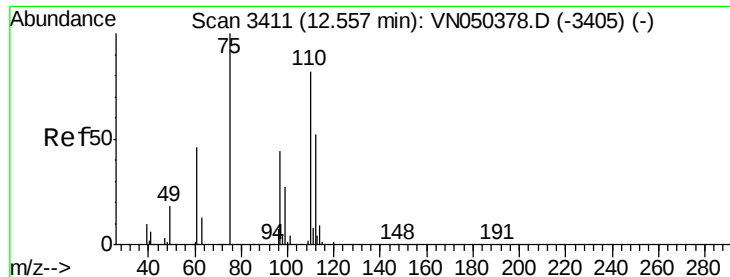
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN050510.D
Acq: 10 Aug 2018 12:04

Tgt Ion:152 Resp: 378091
Ion Ratio Lower Upper
152 100
115 56.9 27.8 83.3
150 157.6 0.0 348.6



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





#76

1,2,3-Trichloropropane

Concen: 31.20 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050510.D

Acq: 10 Aug 2018 12:04

Instrument :

MSVOA_N

ClientSampled :

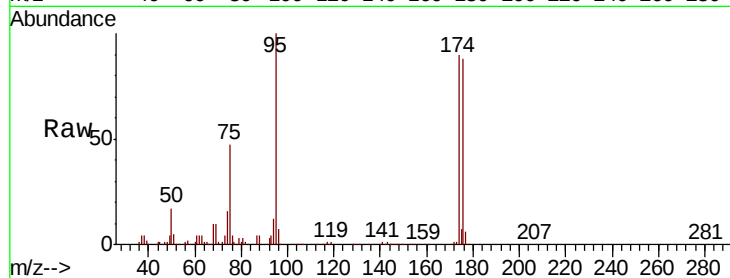
TB

Tot Ion: 75 Resp: 213521

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

150000

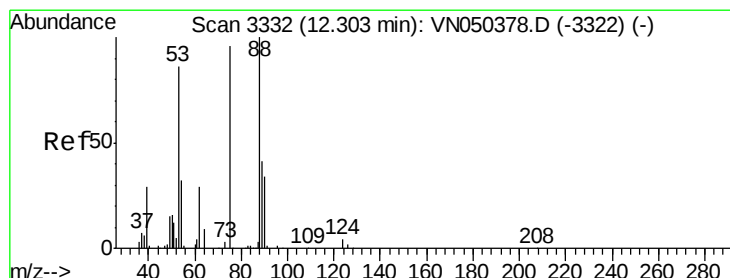
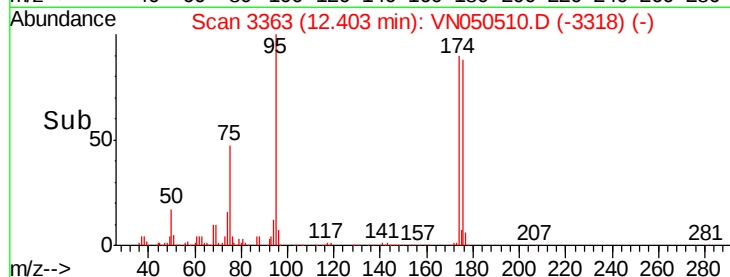
100000

50000

0

Time-->

12.35 12.40 12.45



#81

trans-1,4-Dichloro-2-butene

Concen: 109.62 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050510.D

Acq: 10 Aug 2018 12:04

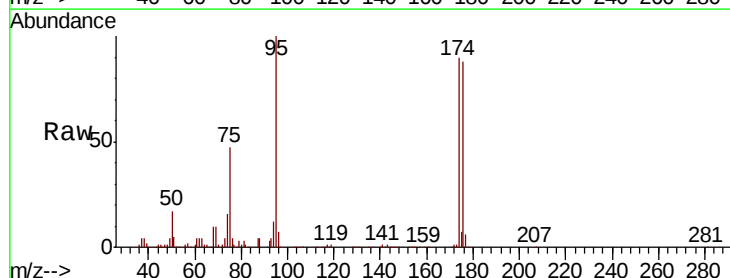
Tgt Ion: 75 Resp: 213521

Ion Ratio Lower Upper

75 100

53 0.2 73.5 110.3#

89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

12.40

150000

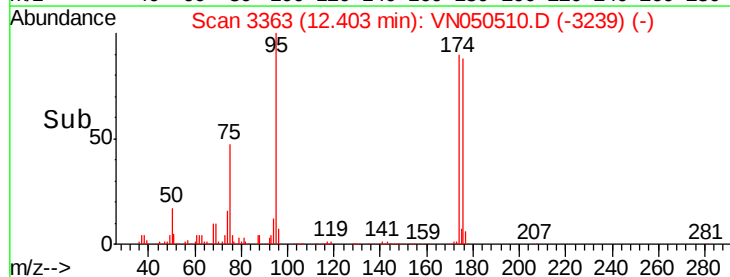
100000

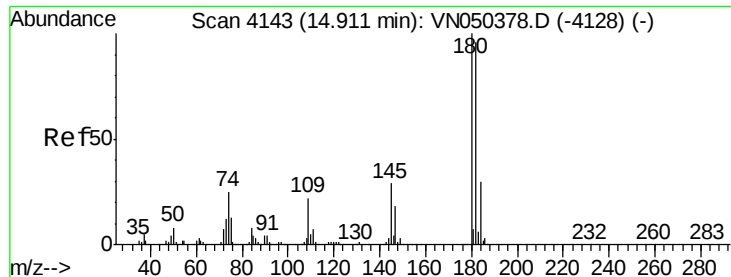
50000

0

Time-->

12.35 12.40 12.45

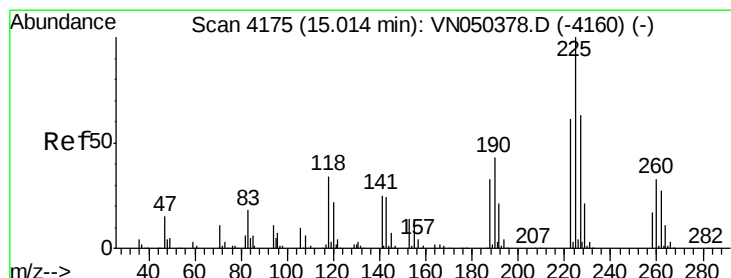
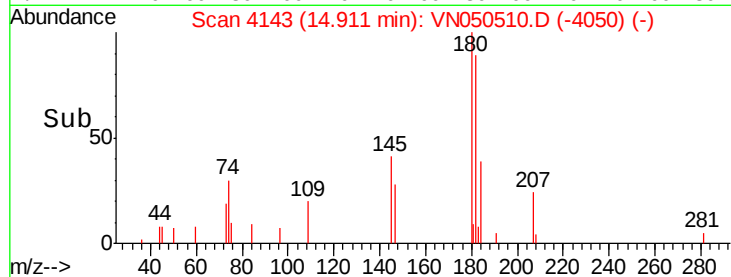
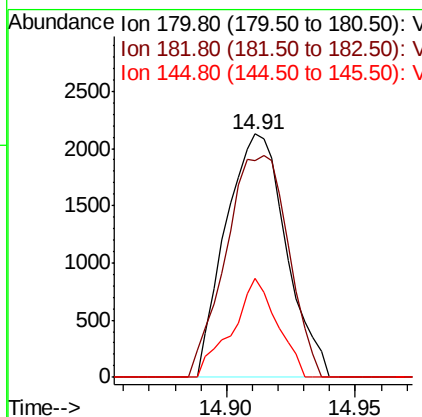
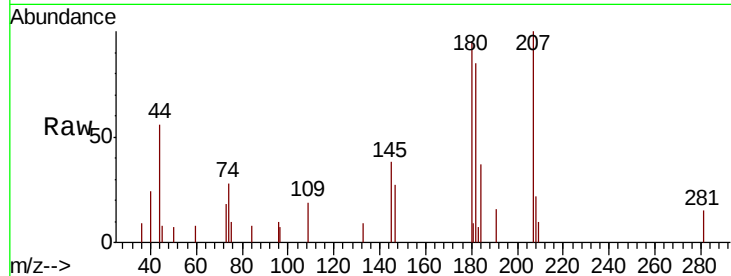




#93
 1,2,4-Trichlorobenzene
 Concen: 0.50 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN050510.D
 Acq: 10 Aug 2018 12:04

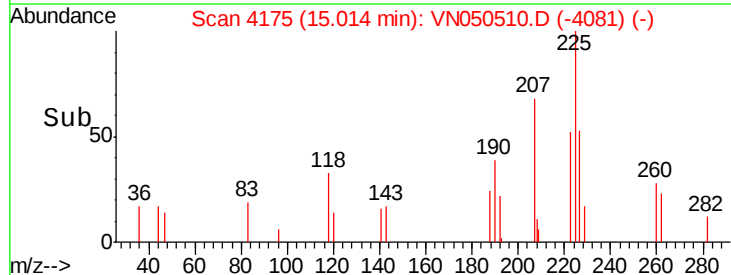
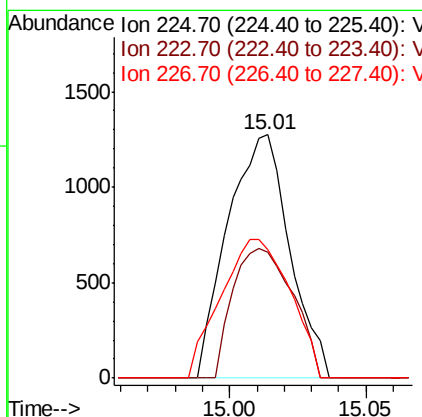
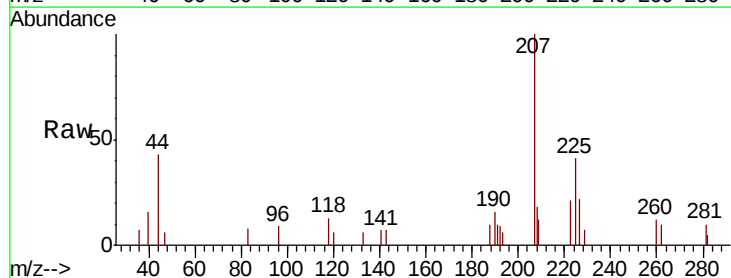
Instrument :
 MSVOA_N
 ClientSampled :
 TB

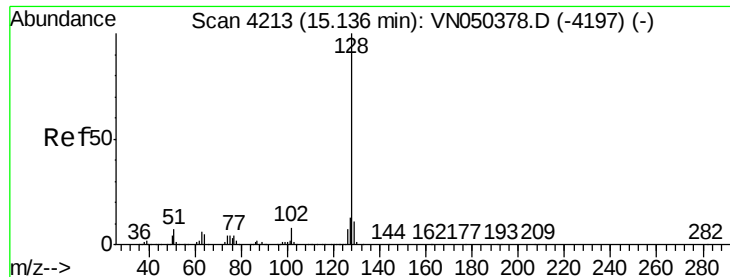
Tot Ion:180 Resp: 3476
 Ion Ratio Lower Upper
 180 100
 182 94.0 46.7 140.1
 145 30.2 13.8 41.4



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4175
 Delta R.T. 0.00 min
 Lab File: VN050510.D
 Acq: 10 Aug 2018 12:04

Tgt Ion:225 Resp: 2007
 Ion Ratio Lower Upper
 225 100
 223 51.8 31.4 94.2
 227 63.8 32.1 96.5





#95

Naphthalene

Concen: 4.03 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN050510.D

Acq: 10 Aug 2018 12:04

Instrument :

MSVOA_N

ClientSampleId :

TB

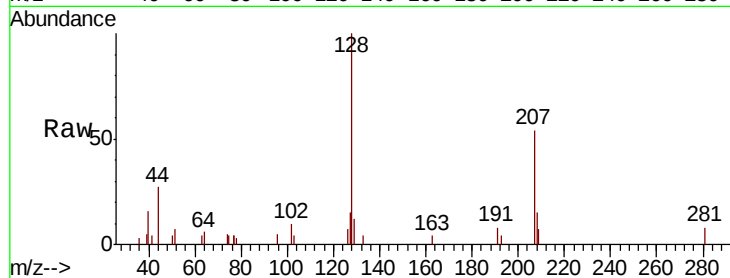
Tot Ion:128 Resp: 8080

Ion Ratio Lower Upper

128 100

127 14.2 10.4 15.6

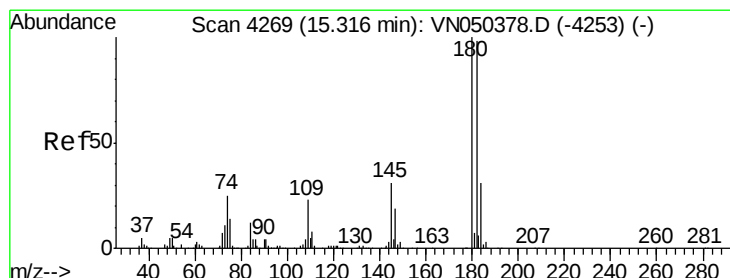
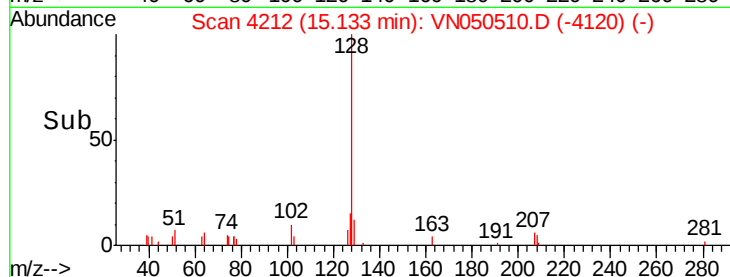
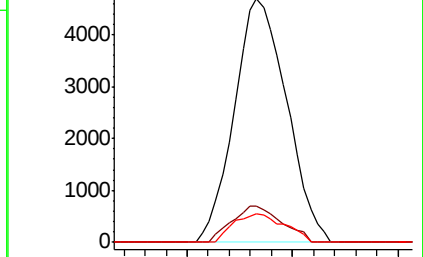
129 11.4 8.8 13.2



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



#96

1,2,3-Trichlorobenzene

Concen: 0.56 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. 0.00 min

Lab File: VN050510.D

Acq: 10 Aug 2018 12:04

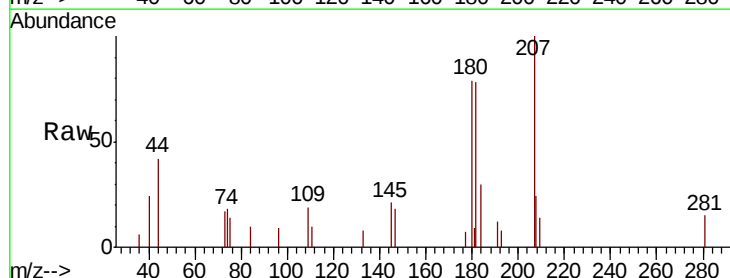
Tgt Ion:180 Resp: 3893

Ion Ratio Lower Upper

180 100

182 101.0 48.1 144.4

145 28.7 15.3 45.9



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

