

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070419\
 Data File : VN056596.D
 Acq On : 3 Jul 2019 19:48
 Operator : JC/SP
 Sample : K3680-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4

Quant Time: Jul 03 22:52:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061919W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 21 03:45:40 2019
 Response via : Initial Calibration

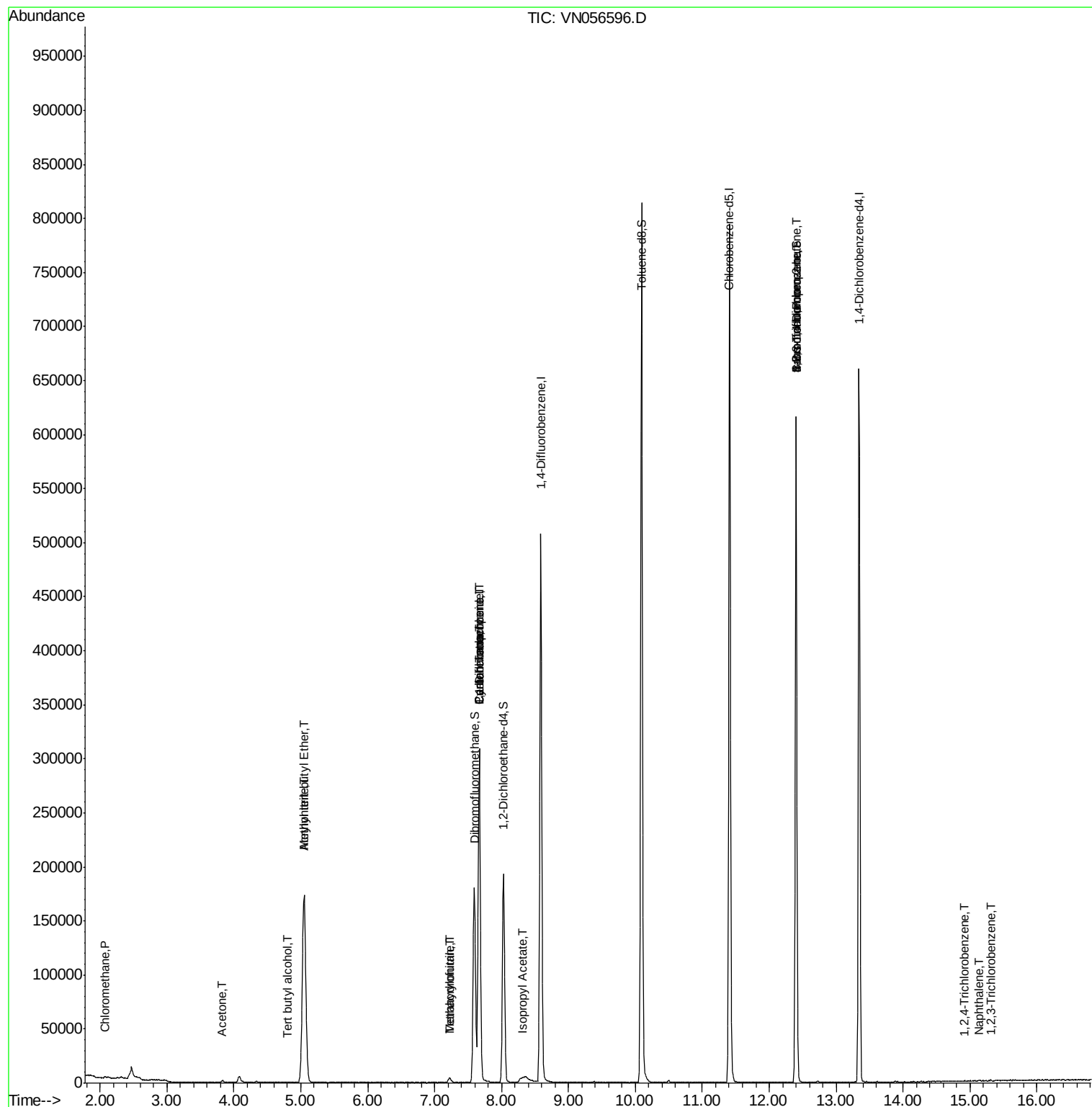
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	276510	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	478749	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	486869	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	189856	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	161851	52.81	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.62%	
35) Dibromofluoromethane	7.59	113	139766	46.80	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.60%	
50) Toluene-d8	10.09	98	601101	51.72	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.44%	
62) 4-Bromofluorobenzene	12.40	95	215852	55.72	ug/l	0.00
Spiked Amount 50.000			Recovery	=	111.44%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.06	50	988	0.310	ug/l	91
11) Tert butyl alcohol	4.81	59	242	0.469	ug/l #	74
15) Acrylonitrile	5.04	53	1722	1.206	ug/l #	39
16) Acetone	3.82	43	3071	2.000	ug/l	98
18) Methyl Acetate	4.34	43	2398	Below Cal	#	57
19) Methyl tert-butyl Ether	5.05	73	309542	38.297	ug/l	98
29) Tetrahydrofuran	7.22	42	4229	3.405	ug/l #	67
31) Cyclohexane	7.67	56	4792	1.013	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	18464	4.382	ug/l #	49
38) Carbon Tetrachloride	7.67	117	24387	6.618	ug/l #	15
41) Methacrylonitrile	7.22	41	2438	1.333	ug/l #	28
43) Isopropyl Acetate	8.30	43	4416	0.692	ug/l #	54
71) Bromoform	12.40	173	1602	3.705	ug/l #	1
73) Isopropylbenzene	12.25	105	31	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	101515	25.787	ug/l #	100
79) 2-Chlorotoluene	12.67	91	115	Below Cal	#	40
81) trans-1,4-Dichloro-2-buten	12.40	75	101515	91.650	ug/l #	8
93) 1,2,4-Trichlorobenzene	14.91	180	226	5.674	ug/l #	81
95) Naphthalene	15.13	128	685	5.315	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.32	180	282	4.556	ug/l #	50

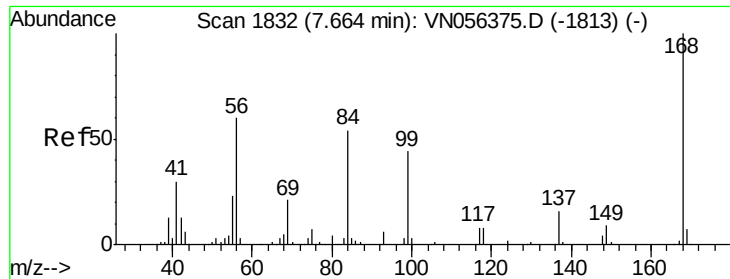
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jun 21 03:45:40 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056596.D

Acq: 3 Jul 2019 19:48

Instrument :

MSVOA_N

ClientSampled :

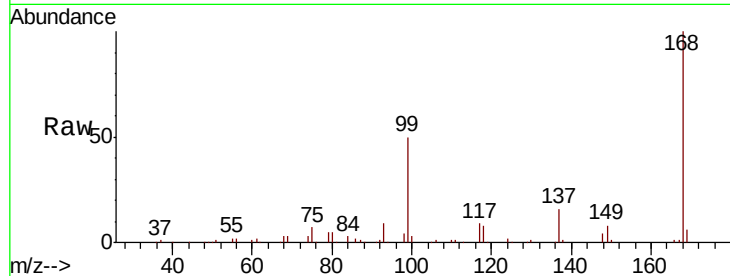
MW-4

Tot Ion:168 Resp: 276510

Ion Ratio Lower Upper

168 100

99 50.3 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

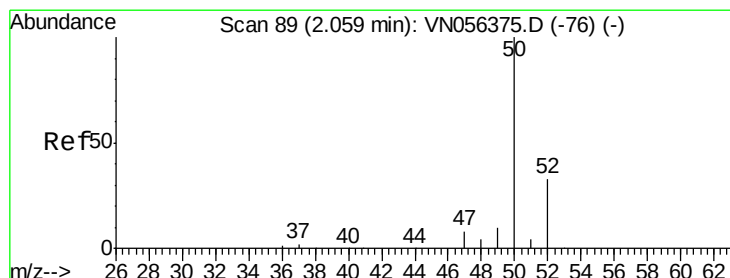
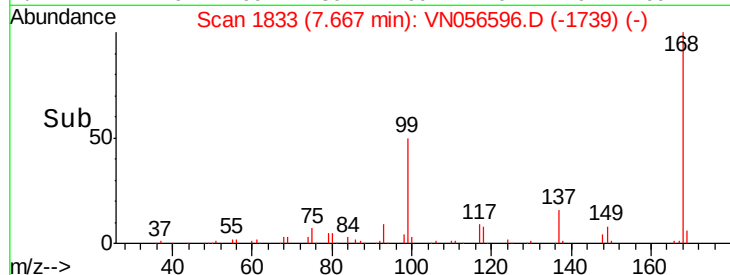
7.67

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.310 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN056596.D

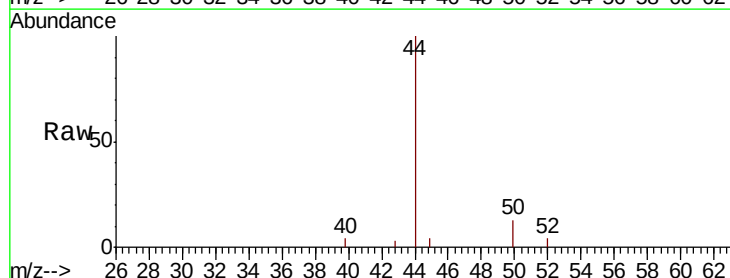
Acq: 3 Jul 2019 19:48

Tgt Ion: 50 Resp: 988

Ion Ratio Lower Upper

50 100

52 28.1 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

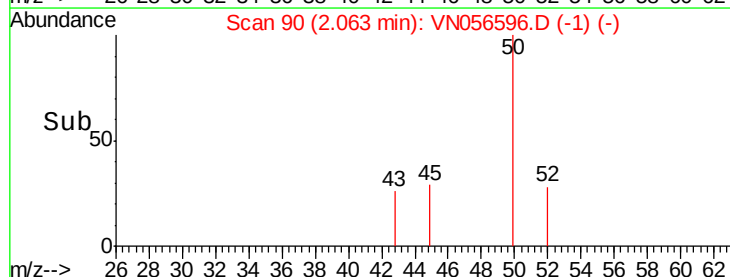
600

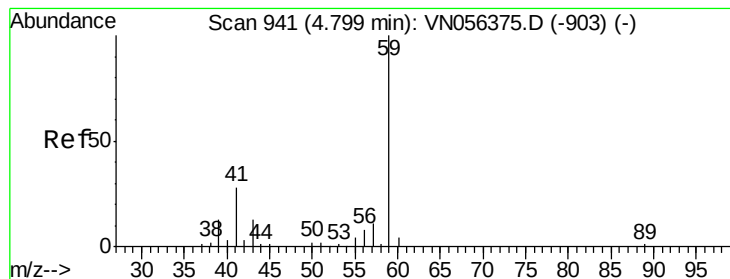
400

200

0

Time-->



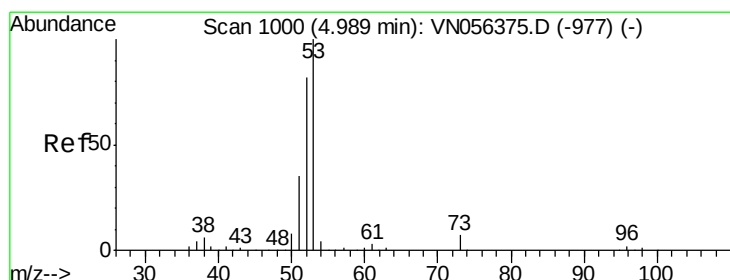
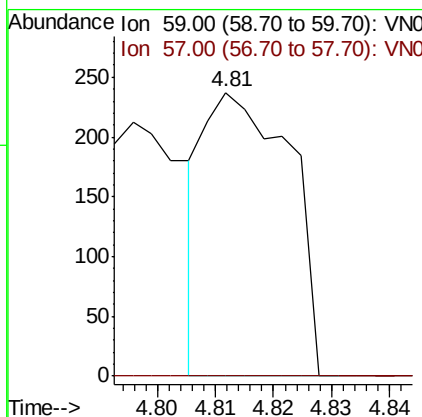
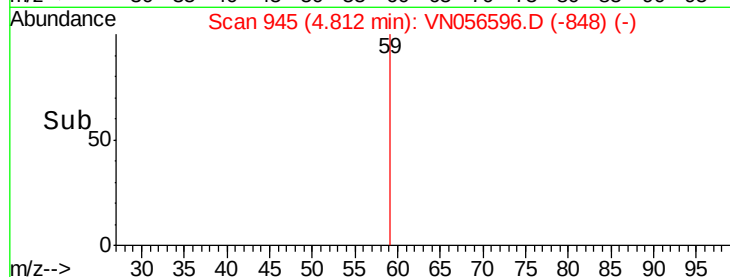
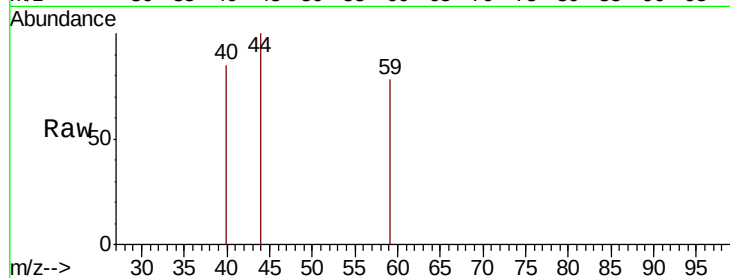


#11

Tert butyl alcohol
 Concen: 0.469 ug/l
 RT: 4.81 min Scan# 945
 Delta R.T. 0.01 min
 Lab File: VN056596.D
 Acq: 3 Jul 2019 19:48

Instrument :
 MSVOA_N
 ClientSampled :
 MW-4

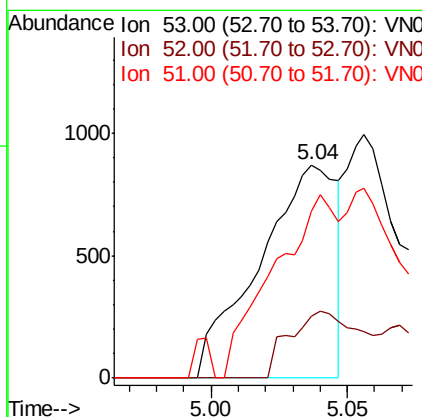
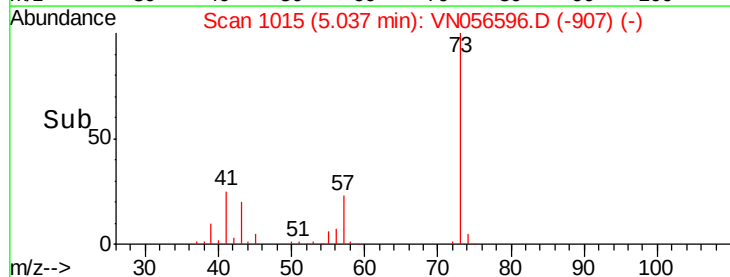
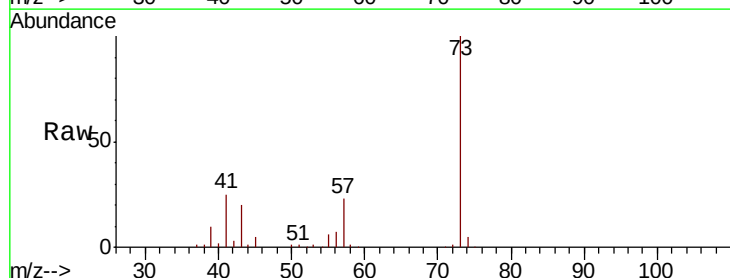
Tot Ion: 59 Resp: 242
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.6 11.4#

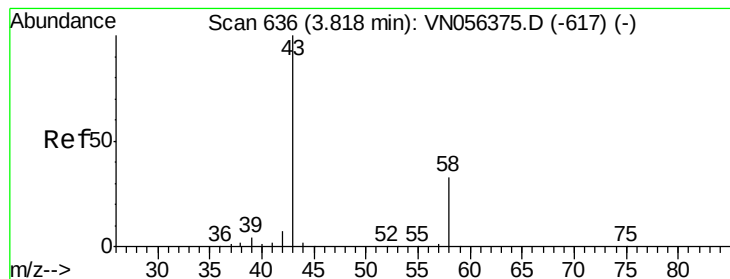


#15

Acrylonitrile
 Concen: 1.206 ug/l
 RT: 5.04 min Scan# 1015
 Delta R.T. 0.05 min
 Lab File: VN056596.D
 Acq: 3 Jul 2019 19:48

Tgt Ion: 53 Resp: 1722
 Ion Ratio Lower Upper
 53 100
 52 28.0 65.9 98.9#
 51 70.7 28.3 42.5#





#16

Acetone

Concen: 2.000 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN056596.D

Acq: 3 Jul 2019 19:48

Instrument :

MSVOA_N

ClientSampled :

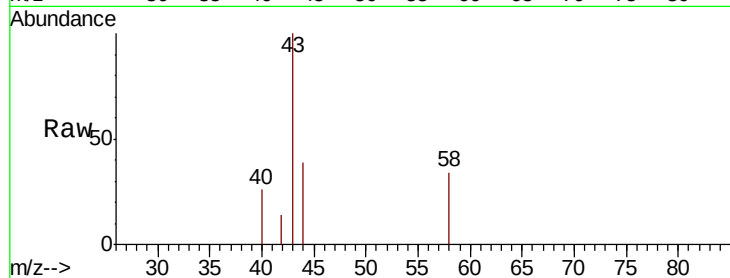
MW-4

Tot Ion: 43 Resp: 3071

Ion Ratio Lower Upper

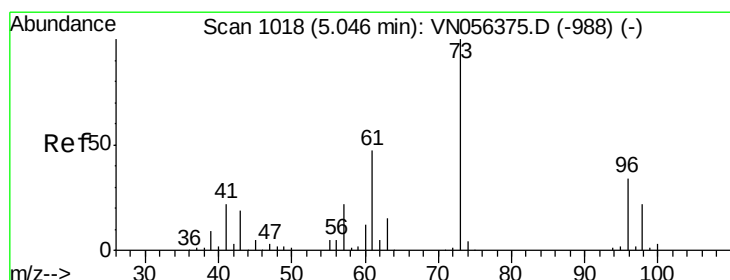
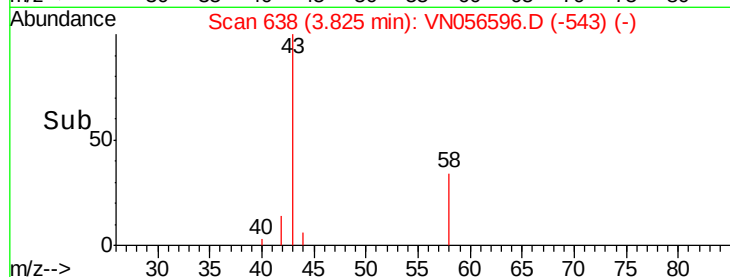
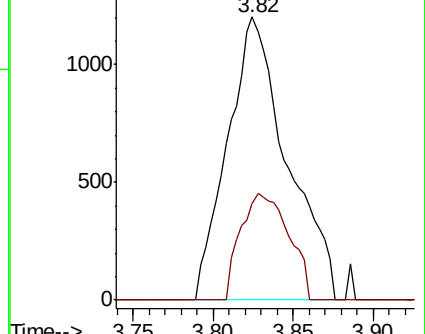
43 100

58 34.2 26.4 39.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#19

Methyl tert-butyl Ether

Concen: 38.297 ug/l

RT: 5.05 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VN056596.D

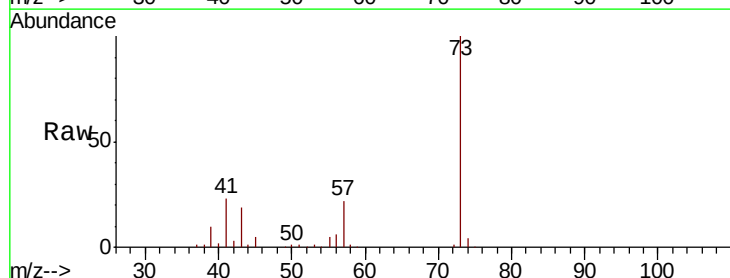
Acq: 3 Jul 2019 19:48

Tgt Ion: 73 Resp: 309542

Ion Ratio Lower Upper

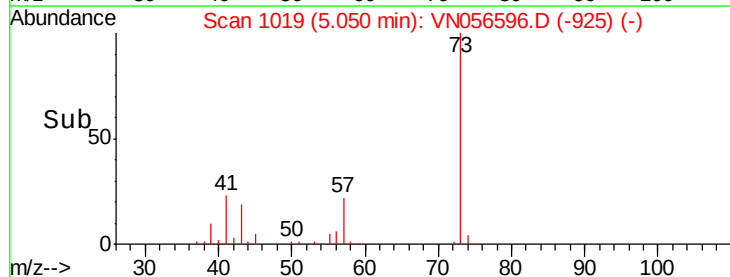
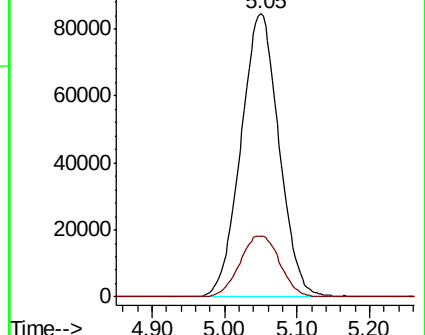
73 100

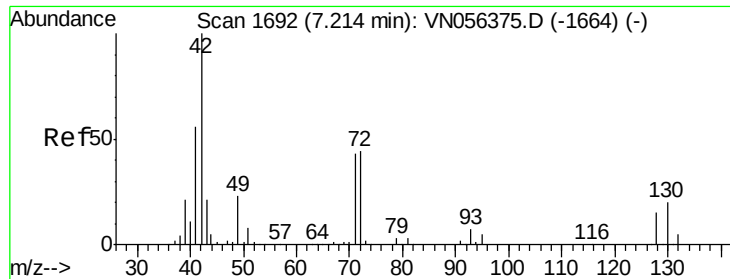
57 21.5 17.9 26.9



Abundance Ion 73.00 (72.70 to 73.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#29

Tetrahydrofuran

Concen: 3.405 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.01 min

Lab File: VN056596.D

Acq: 3 Jul 2019 19:48

Instrument :

MSVOA_N

ClientSampled :

MW-4

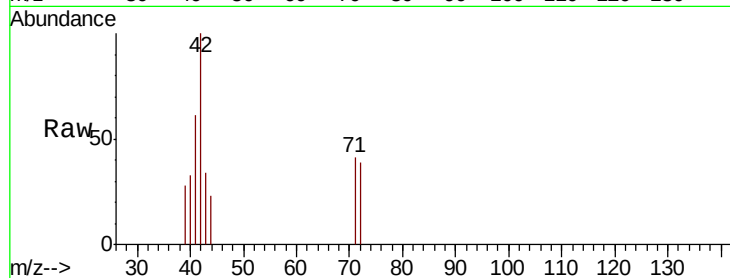
Tot Ion: 42 Resp: 4229

Ion Ratio Lower Upper

42 100

72 20.9 34.7 52.1#

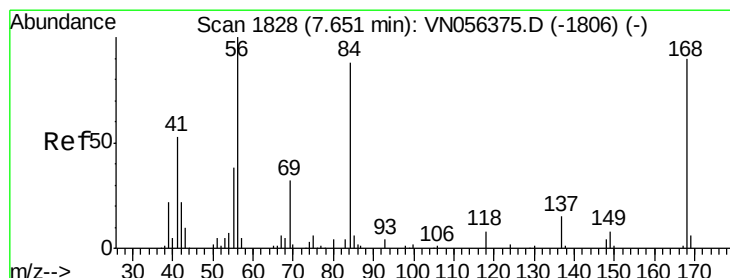
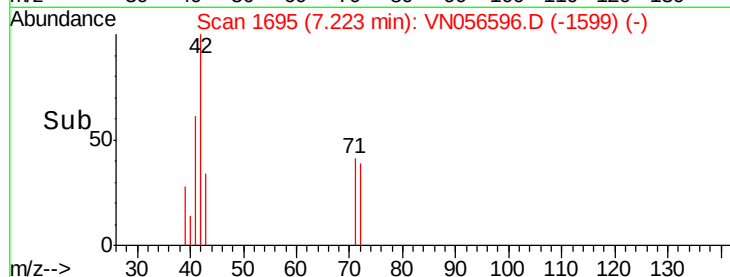
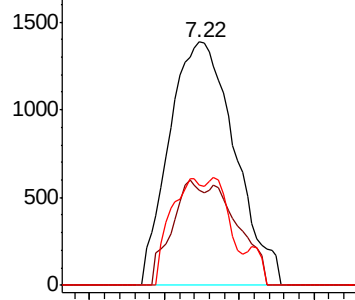
71 22.3 33.0 49.6#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.013 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN056596.D

Acq: 3 Jul 2019 19:48

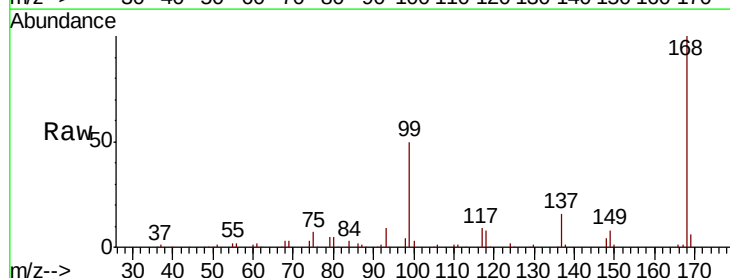
Tgt Ion: 56 Resp: 4792

Ion Ratio Lower Upper

56 100

69 175.1 25.8 38.6#

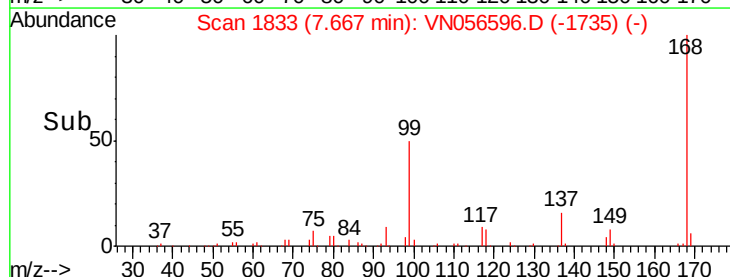
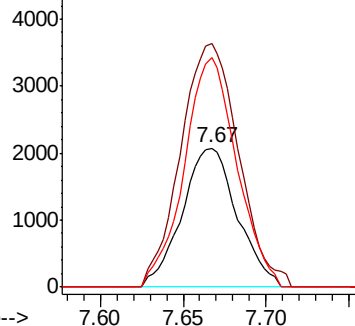
84 165.1 69.4 104.0#

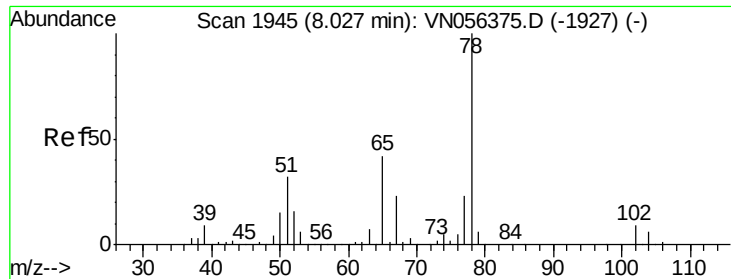


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

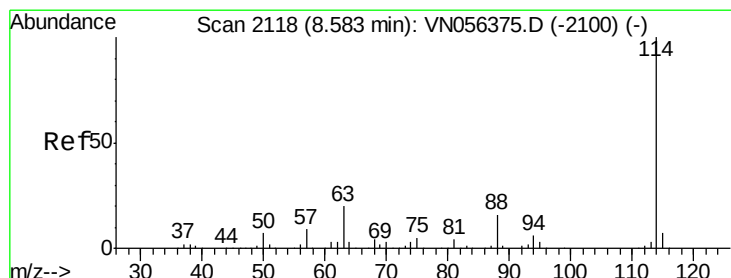
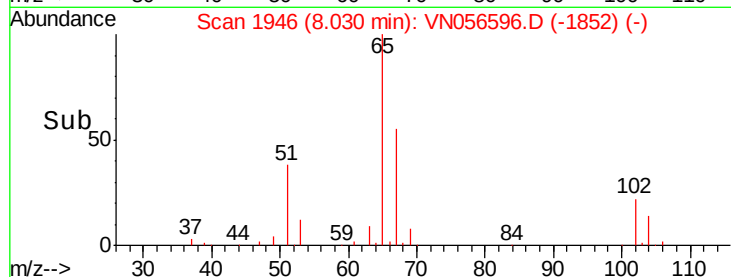
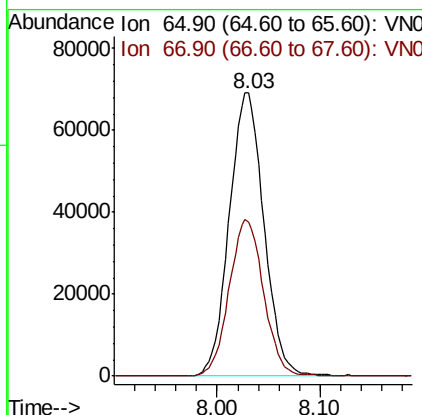
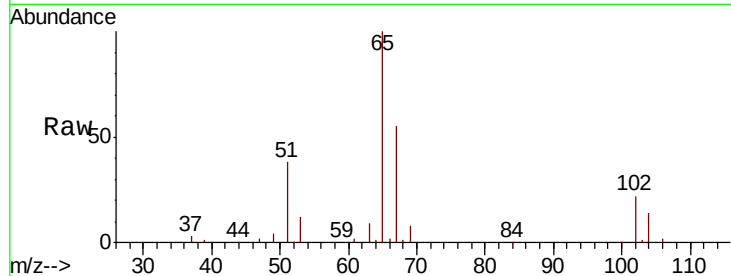




#33
 1,2-Dichloroethane-d4
 Concen: 52.813 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN056596.D
 Acq: 3 Jul 2019 19:48

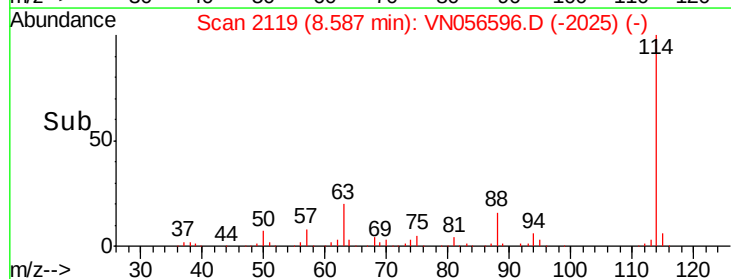
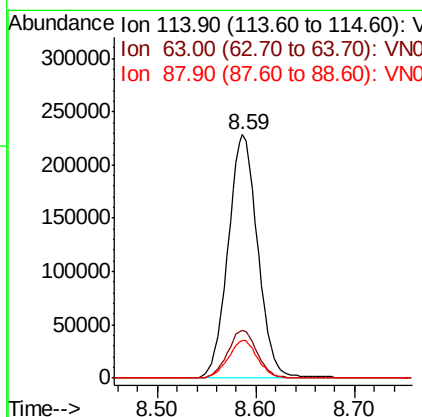
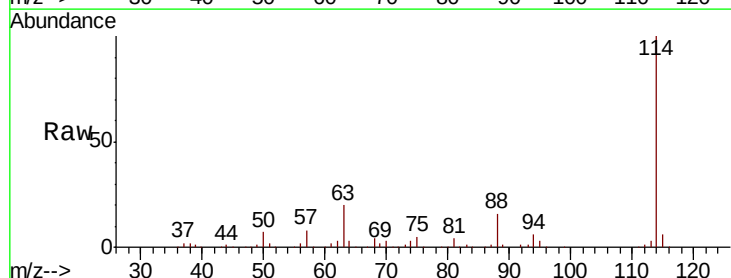
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4

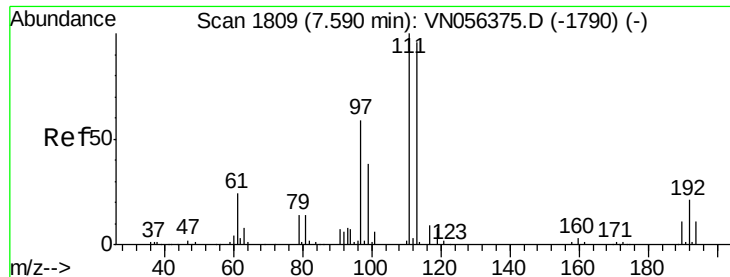
Tot Ion: 65 Resp: 161851
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056596.D
 Acq: 3 Jul 2019 19:48

Tgt Ion: 114 Resp: 478749
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 39.2
 88 15.5 0.0 31.4





#35

Dibromofluoromethane

Concen: 46.798 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN056596.D

Acq: 3 Jul 2019 19:48

Instrument :

MSVOA_N

ClientSampled :

MW-4

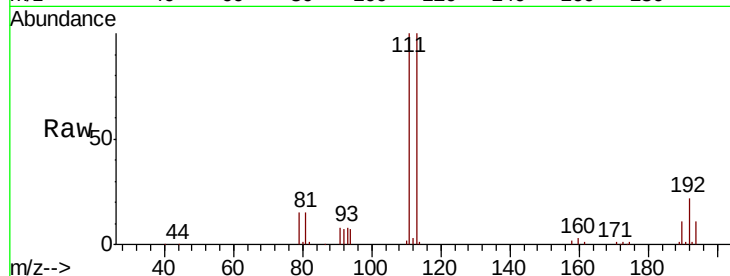
Tot Ion:113 Resp: 139766

Ion Ratio Lower Upper

113 100

111 102.3 82.9 124.3

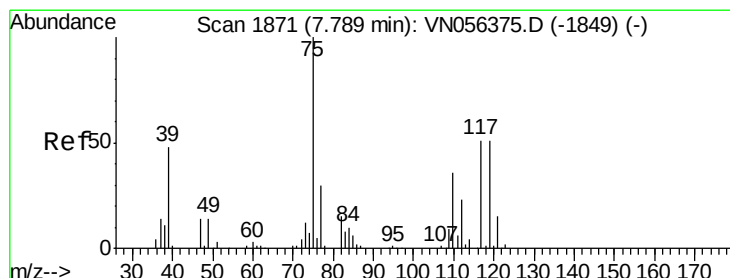
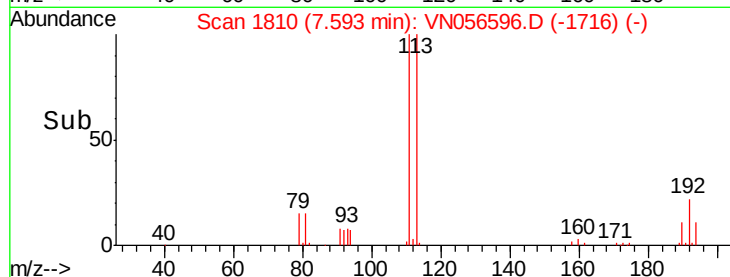
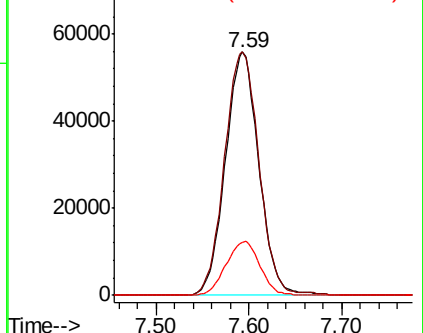
192 22.4 17.7 26.5



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.382 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.12 min

Lab File: VN056596.D

Acq: 3 Jul 2019 19:48

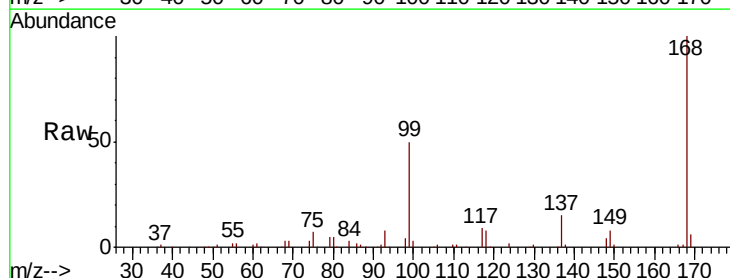
Tgt Ion: 75 Resp: 18464

Ion Ratio Lower Upper

75 100

110 8.1 18.1 54.3#

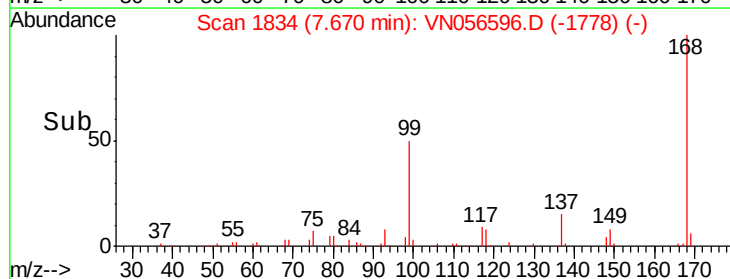
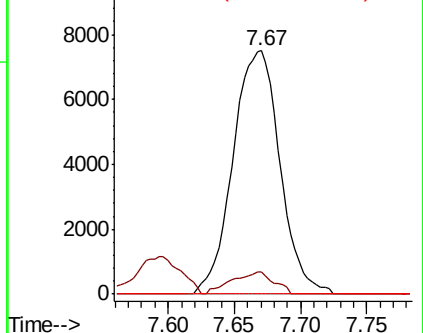
77 0.0 24.6 36.8#

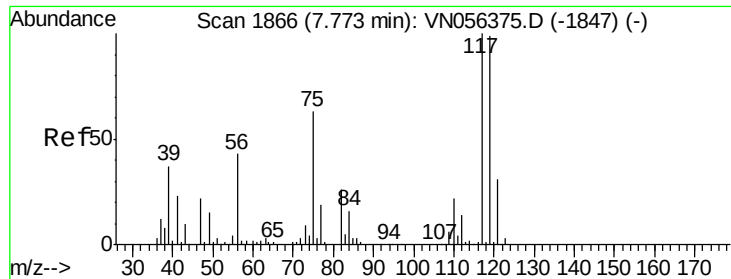


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.618 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN056596.D

Acq: 3 Jul 2019 19:48

Instrument :

MSVOA_N

ClientSampled :

MW-4

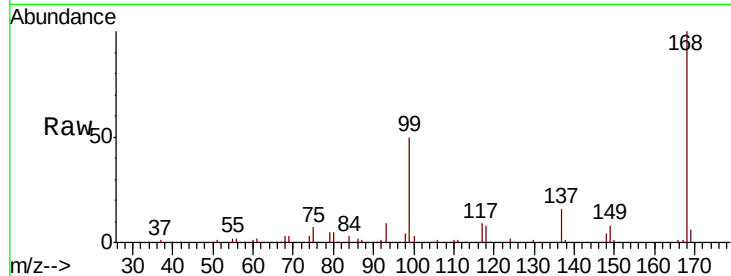
Tot Ion:117 Resp: 24387

Ion Ratio Lower Upper

117 100

119 5.0 79.1 118.7#

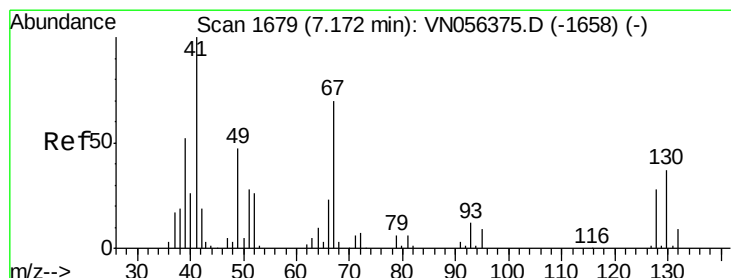
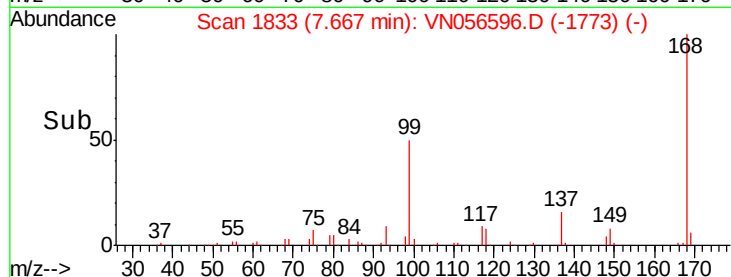
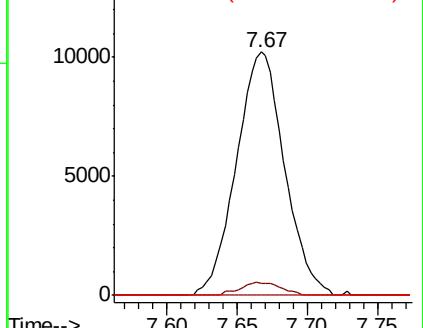
121 0.0 24.8 37.2#



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: 1.333 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.05 min

Lab File: VN056596.D

Acq: 3 Jul 2019 19:48

Tgt Ion: 41 Resp: 2438

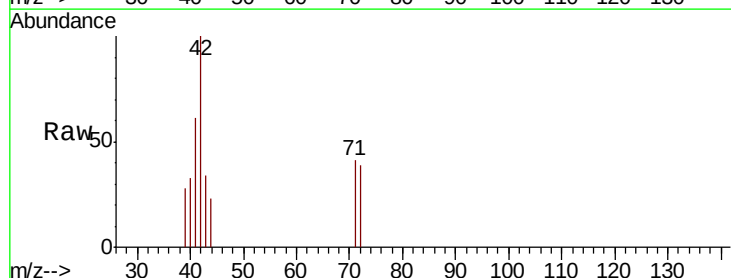
Ion Ratio Lower Upper

41 100

39 38.8 55.3 82.9#

67 0.0 79.2 118.8#

52 0.0 31.4 47.0#

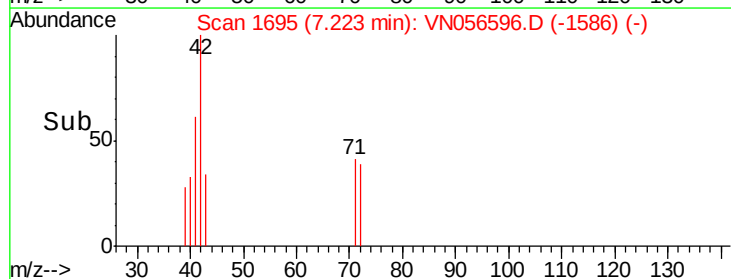
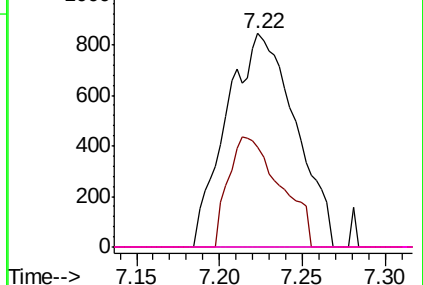


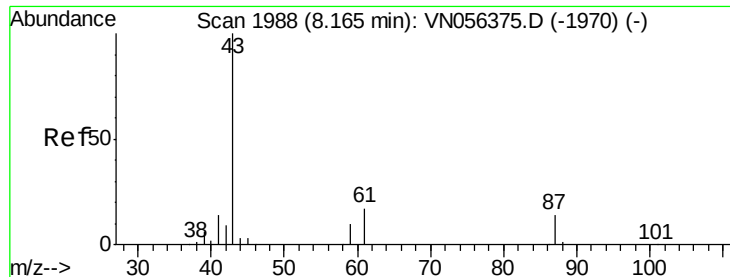
Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 0.692 ug/l

RT: 8.30 min Scan# 2031

Delta R.T. 0.14 min

Lab File: VN056596.D

Acq: 3 Jul 2019 19:48

Instrument :

MSVOA_N

ClientSampled :

MW-4

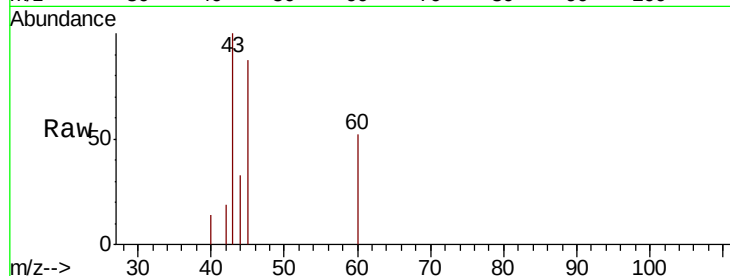
Tot Ion: 43 Resp: 4416

Ion Ratio Lower Upper

43 100

61 0.0 22.0 33.0#

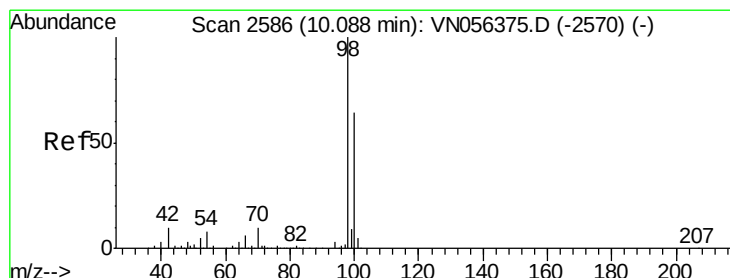
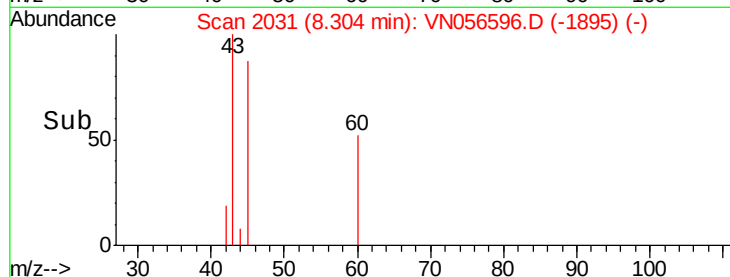
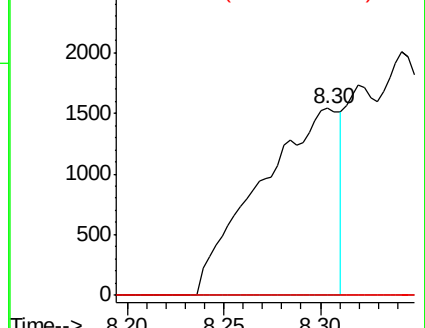
87 0.0 11.0 16.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 51.725 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056596.D

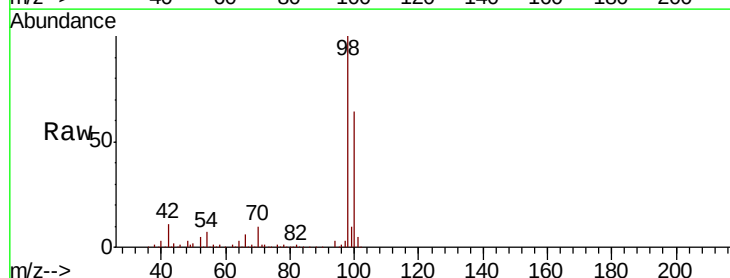
Acq: 3 Jul 2019 19:48

Tgt Ion: 98 Resp: 601101

Ion Ratio Lower Upper

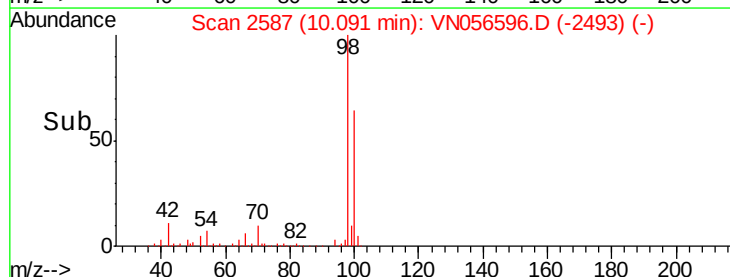
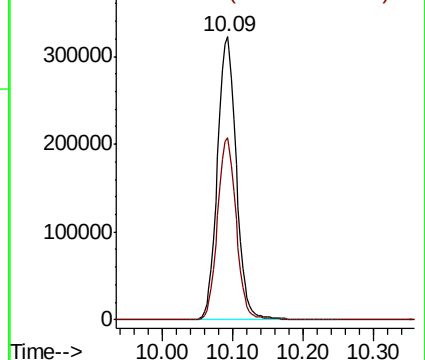
98 100

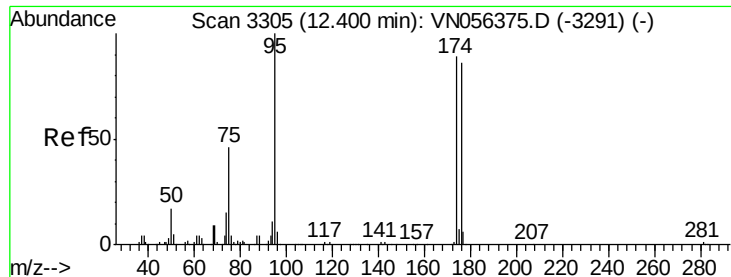
100 63.8 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

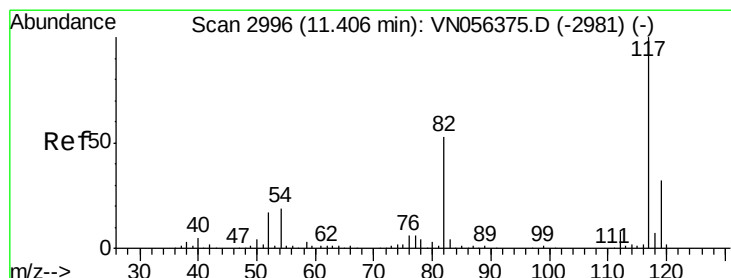
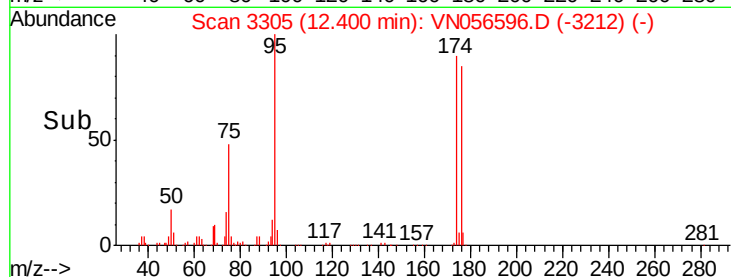
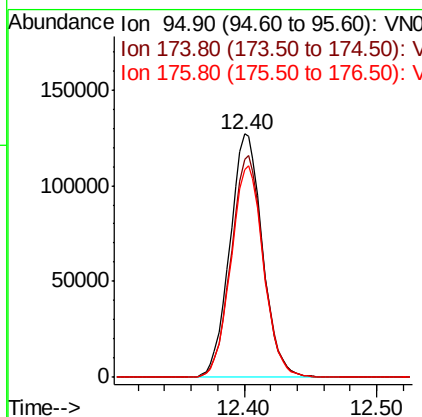
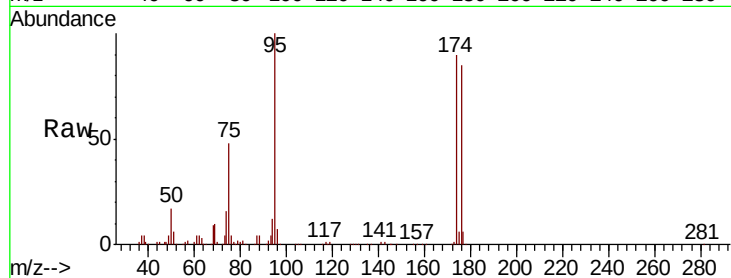




#62
4-Bromofluorobenzene
Concen: 55.718 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056596.D
Acq: 3 Jul 2019 19:48

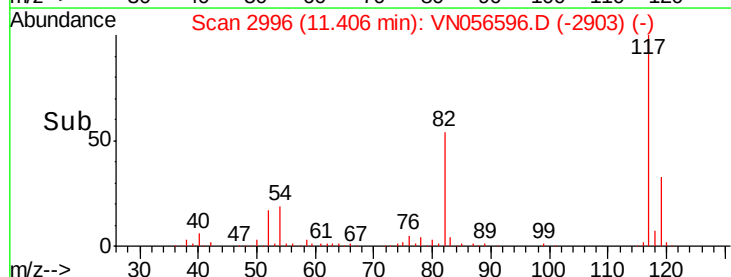
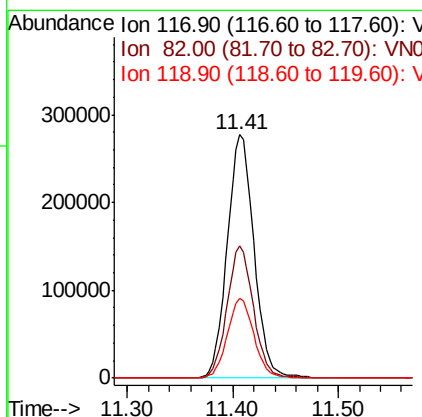
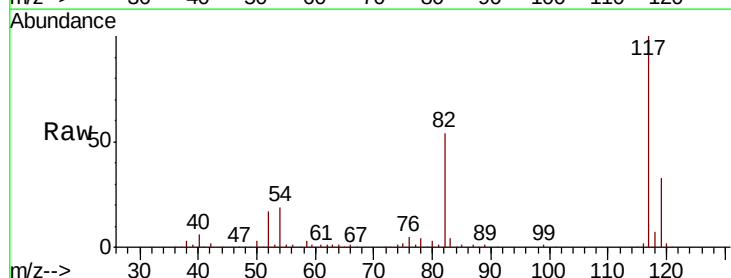
Instrument :
MSVOA_N
ClientSampleId :
MW-4

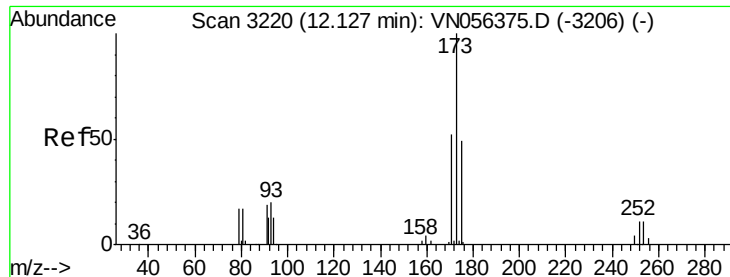
Tot Ion: 95 Resp: 215852
Ion Ratio Lower Upper
95 100
174 91.0 0.0 179.4
176 87.2 0.0 173.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056596.D
Acq: 3 Jul 2019 19:48

Tgt Ion: 117 Resp: 486869
Ion Ratio Lower Upper
117 100
82 54.2 42.0 63.0
119 32.6 25.3 37.9





#71

Bromoform

Concen: 3.705 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN056596.D

Acq: 3 Jul 2019 19:48

Instrument :

MSVOA_N

ClientSampled :

MW-4

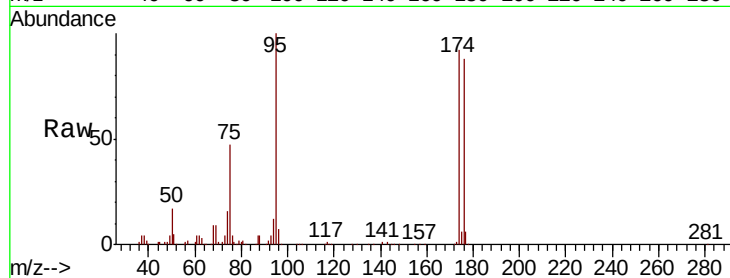
Tot Ion:173 Resp: 1602

Ion Ratio Lower Upper

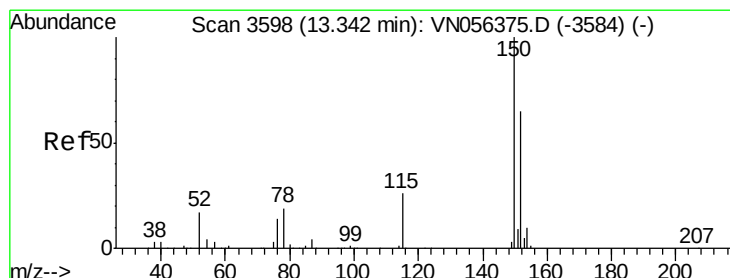
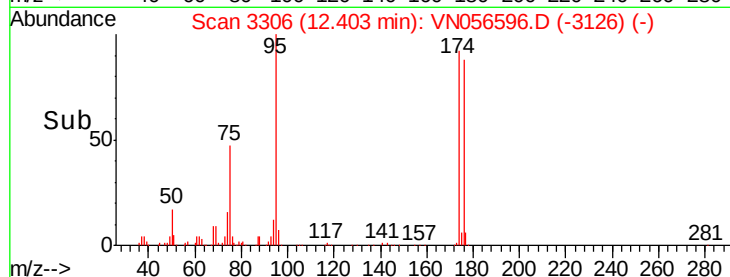
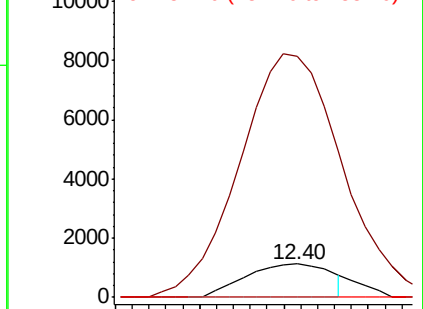
173 100

175 753.4 24.4 73.4#

254 0.0 0.0 0.0



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: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN056596.D

Acq: 3 Jul 2019 19:48

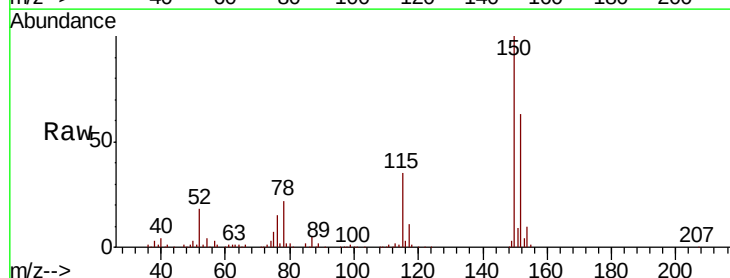
Tgt Ion:152 Resp: 189856

Ion Ratio Lower Upper

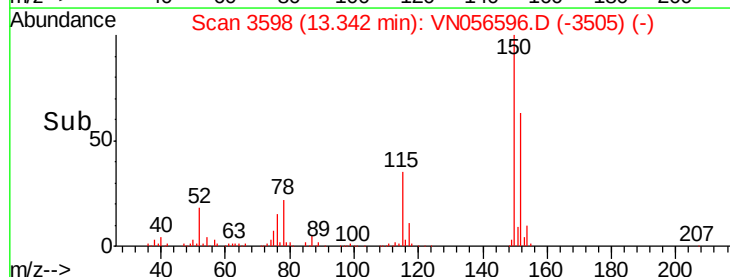
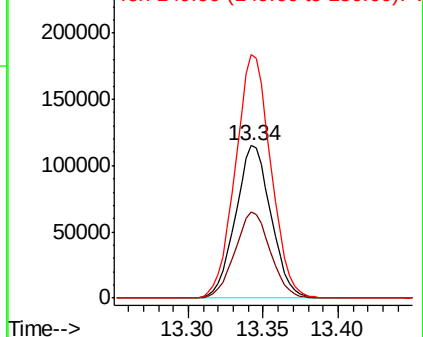
152 100

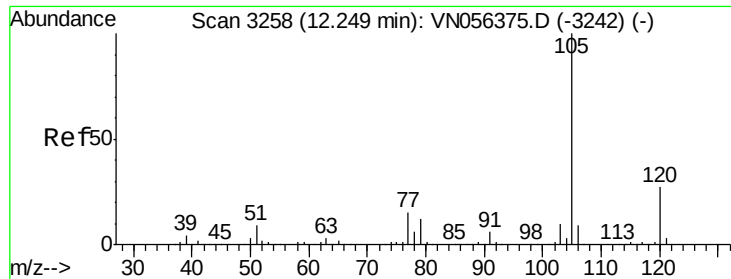
115 56.4 28.1 84.4

150 159.6 0.0 348.4



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





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN056596.D

Acq: 3 Jul 2019 19:48

Instrument :

MSVOA_N

ClientSampled :

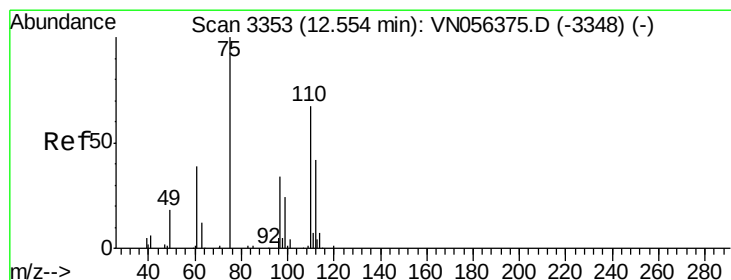
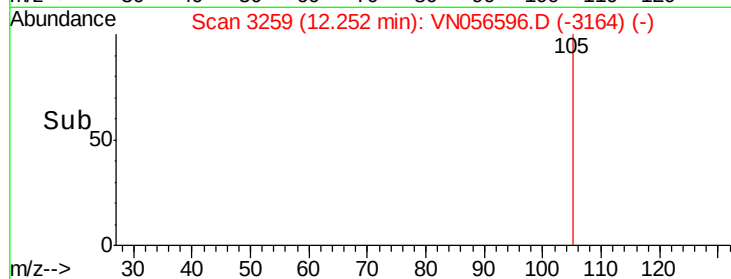
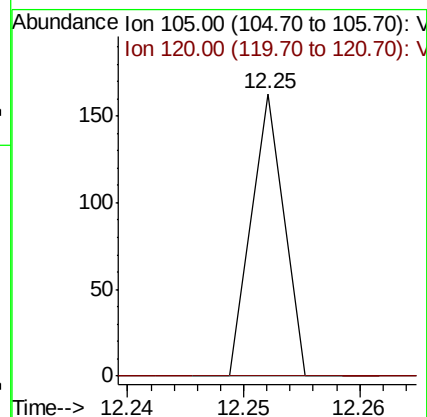
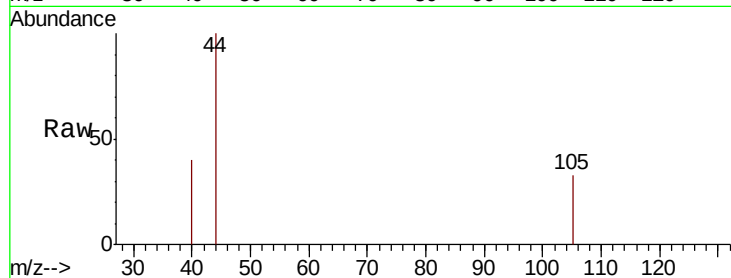
MW-4

Tot Ion:105 Resp: 31

Ion Ratio Lower Upper

105 100

120 0.0 13.4 40.2#



#76

1,2,3-Trichloropropane

Concen: 25.787 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056596.D

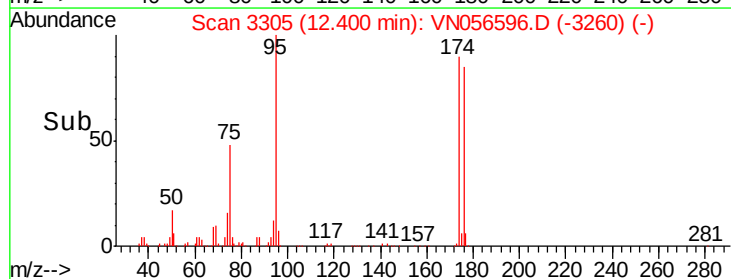
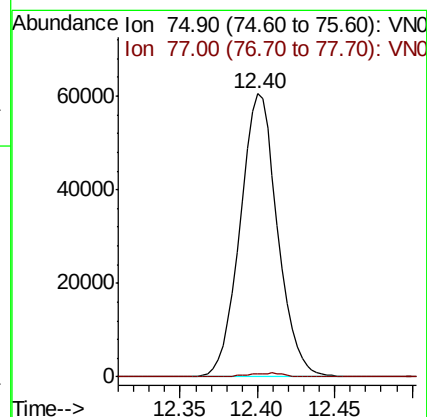
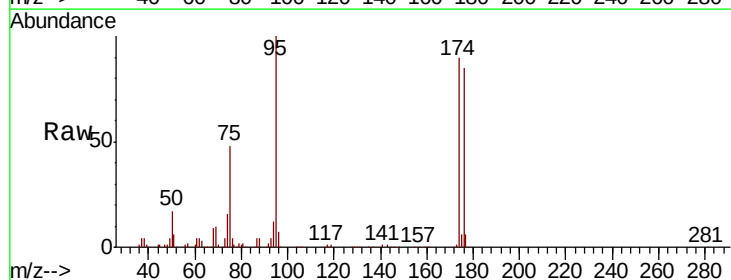
Acq: 3 Jul 2019 19:48

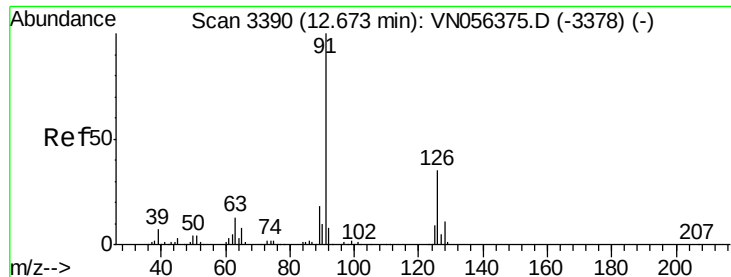
Tgt Ion: 75 Resp: 101515

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.67 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VN056596.D

Acq: 3 Jul 2019 19:48

Instrument :

MSVOA_N

ClientSampled :

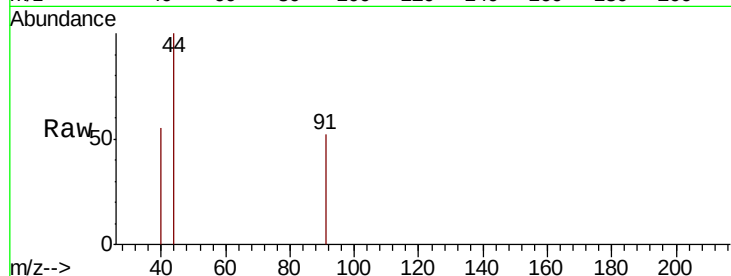
MW-4

Tot Ion: 91 Resp: 115

Ion Ratio Lower Upper

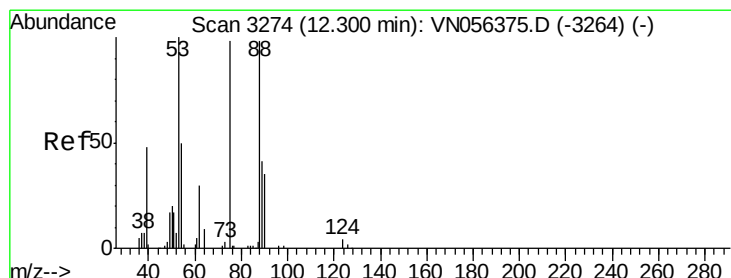
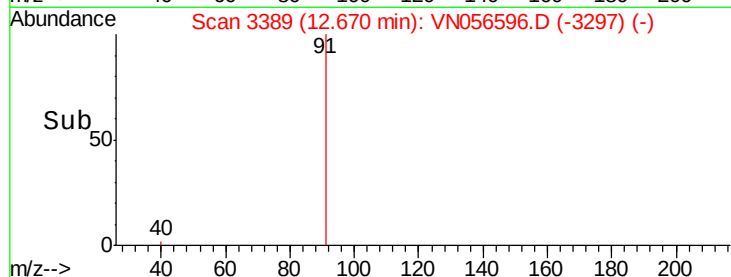
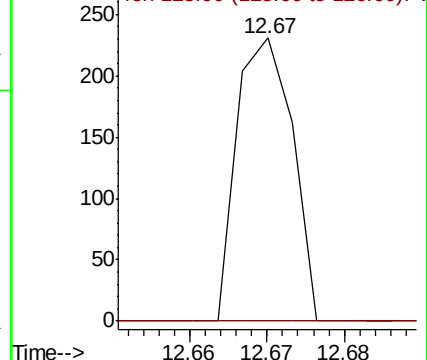
91 100

126 0.0 17.6 52.8#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): VN



#81

trans-1,4-Dichloro-2-butene

Concen: 91.650 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056596.D

Acq: 3 Jul 2019 19:48

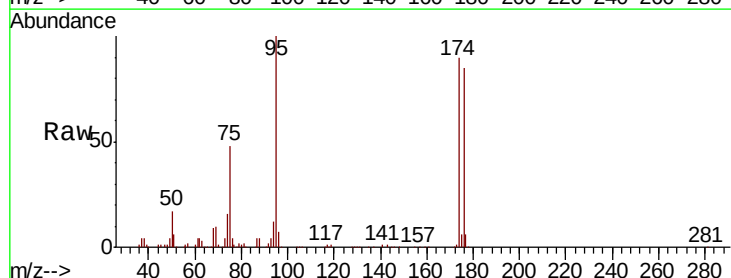
Tgt Ion: 75 Resp: 101515

Ion Ratio Lower Upper

75 100

53 0.0 83.9 125.9#

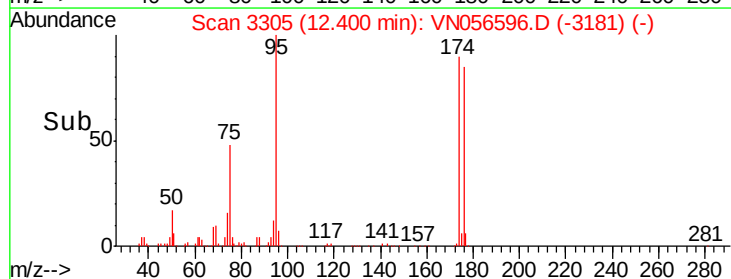
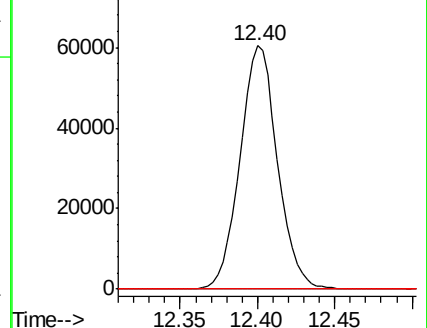
89 0.0 35.0 52.6#

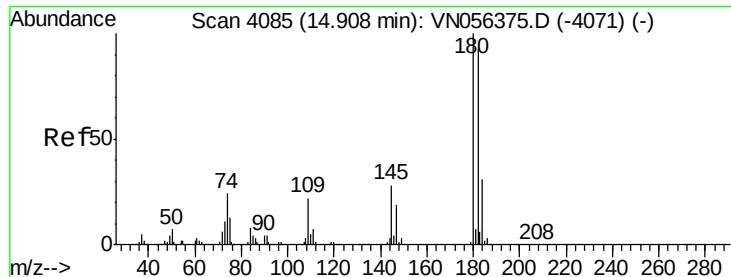


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

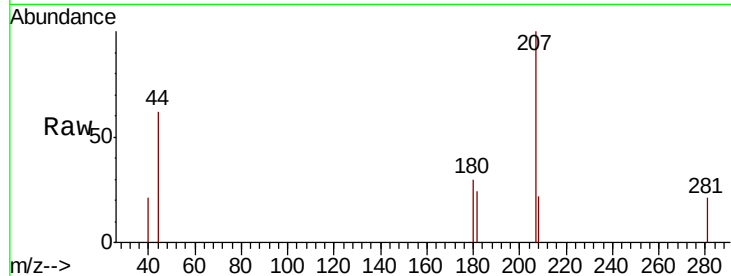




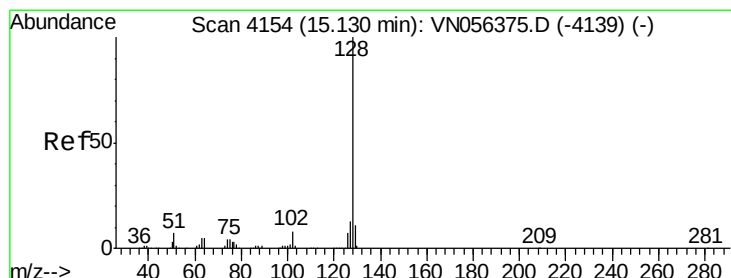
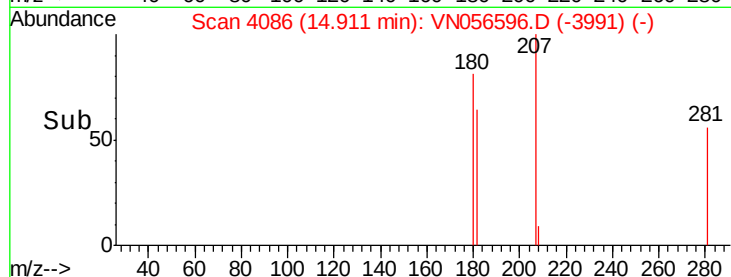
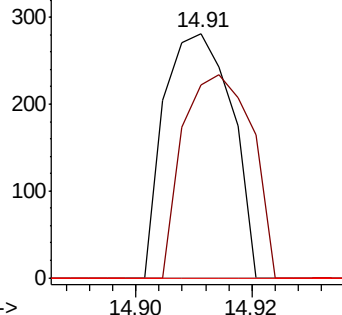
#93
 1,2,4-Trichlorobenzene
 Concen: 5.674 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN056596.D
 Acq: 3 Jul 2019 19:48

Instrument :
 MSVOA_N
 ClientSampled :
 MW-4

Tot Ion:180 Resp: 226
 Ion Ratio Lower Upper
 180 100
 182 85.8 46.9 140.6
 145 0.0 14.4 43.0#

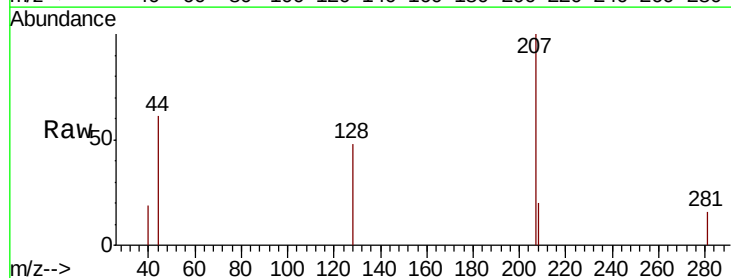


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

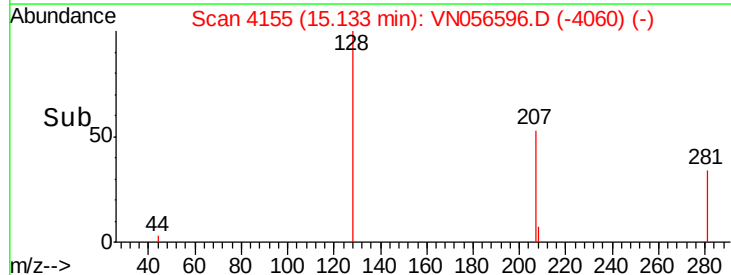
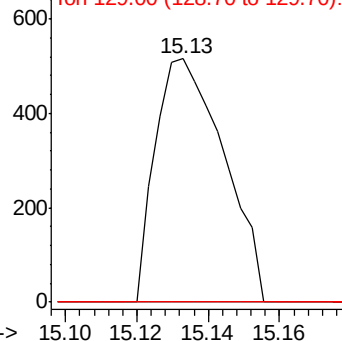


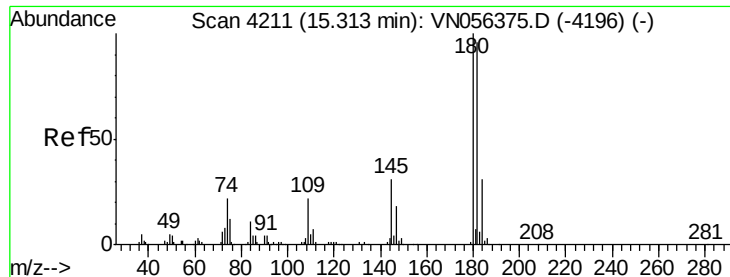
#95
 Naphthalene
 Concen: 5.315 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN056596.D
 Acq: 3 Jul 2019 19:48

Tgt Ion:128 Resp: 685
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.2 15.2#
 129 0.0 8.6 12.8#



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

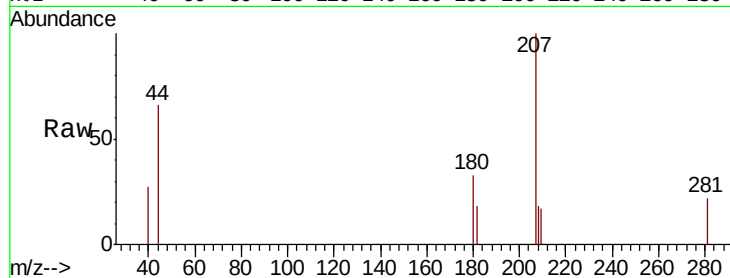




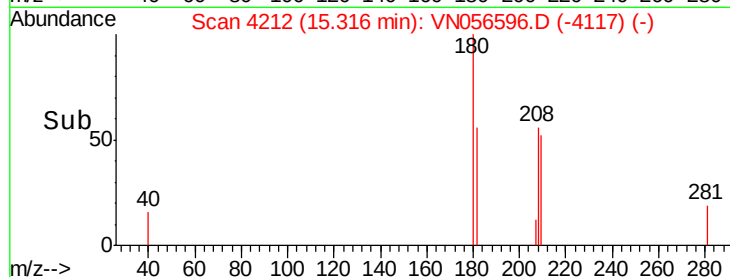
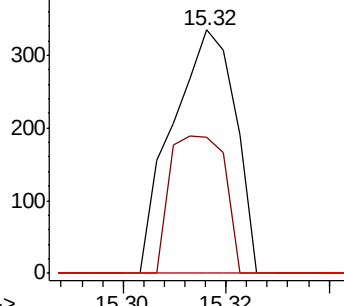
#96
 1,2,3-Trichlorobenzene
 Concen: 4.556 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN056596.D
 Acq: 3 Jul 2019 19:48

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4

Tot Ion	Ratio	Lower	Upper
180	100		
182	49.3	48.3	144.8
145	0.0	15.4	46.1



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



Time-->