

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071919\
 Data File : VN056847.D
 Acq On : 19 Jul 2019 21:07
 Operator : JC/SP
 Sample : K3887-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 19 23:19:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 07:03:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	236673	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	435981	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	480823	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	167025	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	141762	54.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.30%	
35) Dibromofluoromethane	7.59	113	128627	47.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.82%	
50) Toluene-d8	10.09	98	556424	53.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.20%	
62) 4-Bromofluorobenzene	12.40	95	205631	58.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.38%	

Target Compounds

					Qvalue	
16) Acetone	3.82	43	13697	11.354	ug/l	97
18) Methyl Acetate	4.33	43	7484	1.824	ug/l #	72
20) Methylene Chloride	4.55	84	5124	1.944	ug/l #	93
25) 2-Butanone	6.85	43	4384	2.486	ug/l #	88
29) Tetrahydrofuran	7.23	42	712	0.619	ug/l #	58
31) Cyclohexane	7.67	56	4170	0.996	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	15356	3.806	ug/l #	48
38) Carbon Tetrachloride	7.67	117	19914	5.263	ug/l #	16
43) Isopropyl Acetate	8.17	43	16460	2.633	ug/l #	88
45) 1,2-Dichloropropane	9.27	63	1290	0.393	ug/l #	45
48) Methyl methacrylate	9.18	41	7996	2.645	ug/l #	13
51) 4-Methyl-2-Pentanone	9.99	43	3238	0.800	ug/l	92
54) cis-1,3-Dichloropropene	9.90	75	44115	9.420	ug/l #	60
57) 1,3-Dichloropropane	10.76	76	9481	1.885	ug/l #	42
59) 2-Hexanone	10.76	43	121540	41.837	ug/l #	51
71) Bromoform	12.40	173	1554	0.564	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	95645	26.182	ug/l #	100
79) 2-Chlorotoluene	12.40	91	466	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	95645	80.858	ug/l #	13
95) Naphthalene	15.13	128	390	4.565	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056847.D

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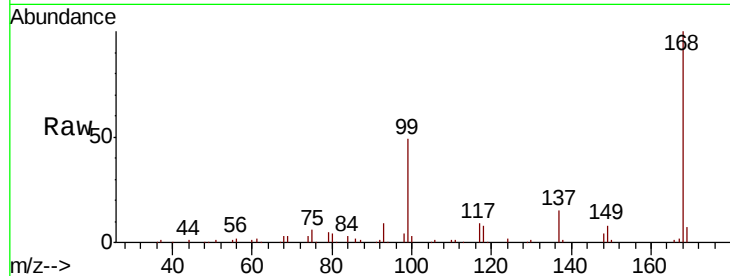
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 236673

Ion Ratio Lower Upper

168 100

99 49.2 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

100000

80000

60000

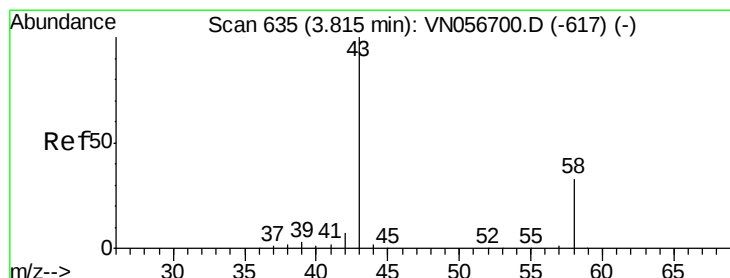
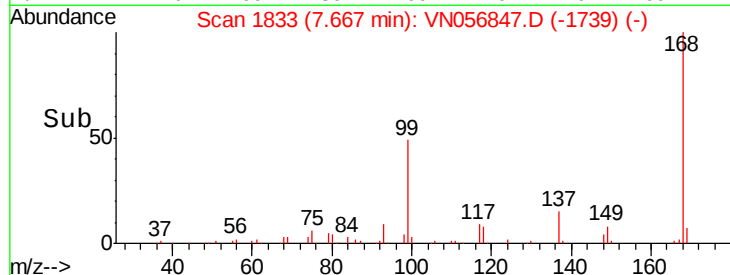
40000

20000

0

Time-->

7.60 7.70 7.80



#16

Acetone

Concen: 11.354 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN056847.D

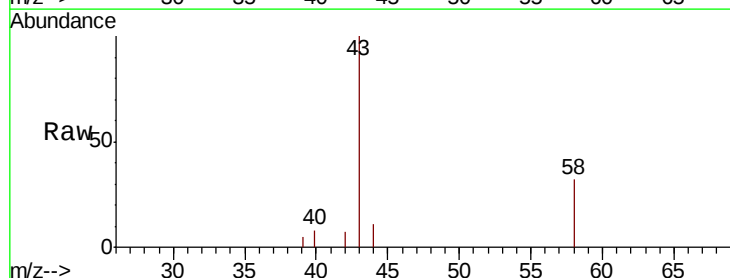
Acq: 19 Jul 2019 21:07

Tgt Ion: 43 Resp: 13697

Ion Ratio Lower Upper

43 100

58 31.9 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.82

6000

5000

4000

3000

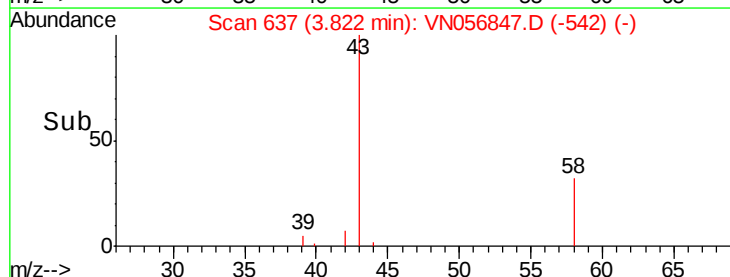
2000

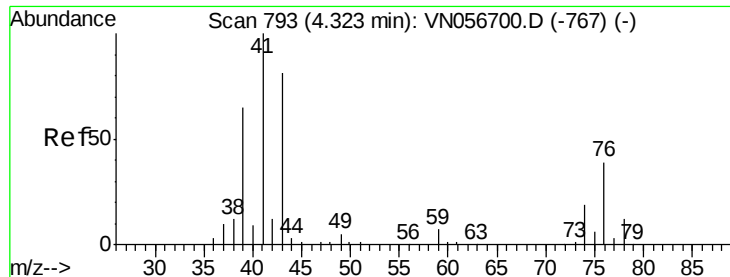
1000

0

Time-->

3.75 3.80 3.85 3.90

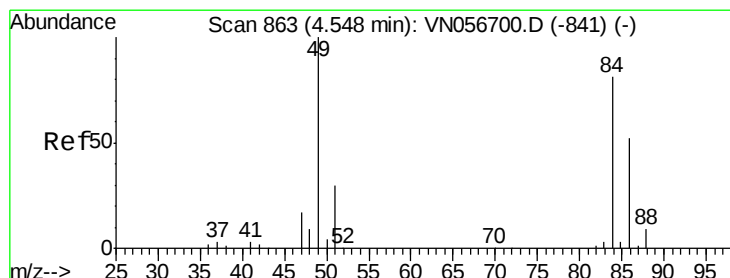
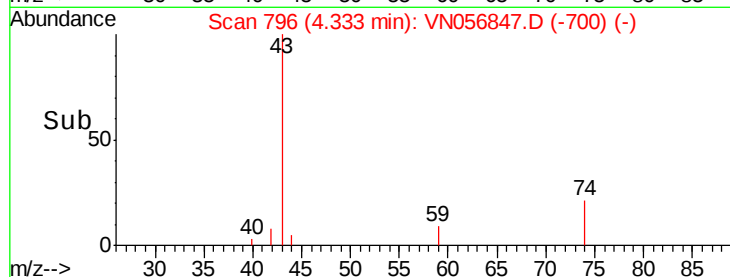
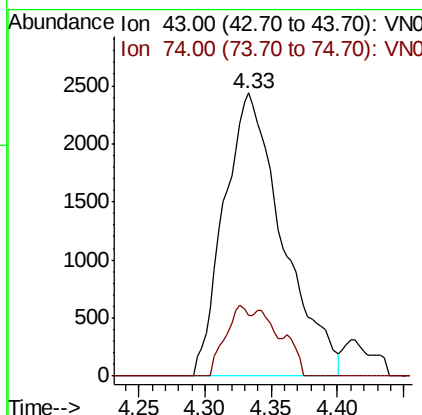
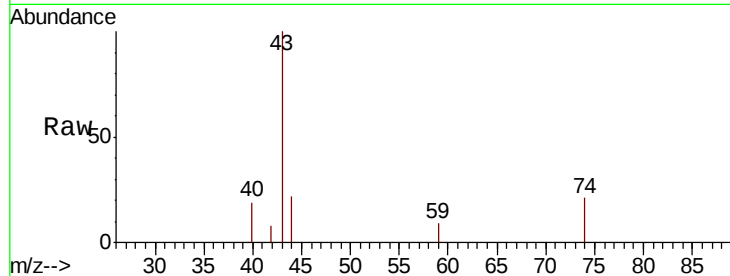




#18
Methyl Acetate
Concen: 1.824 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN056847.D
Acq: 19 Jul 2019 21:07

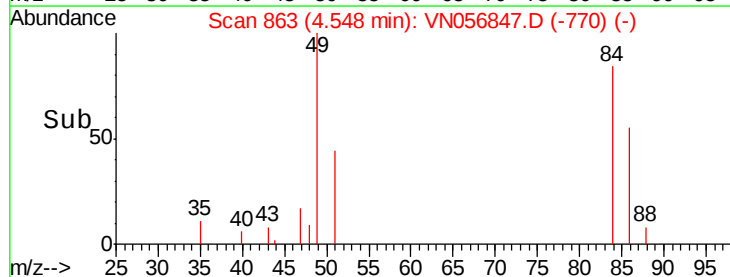
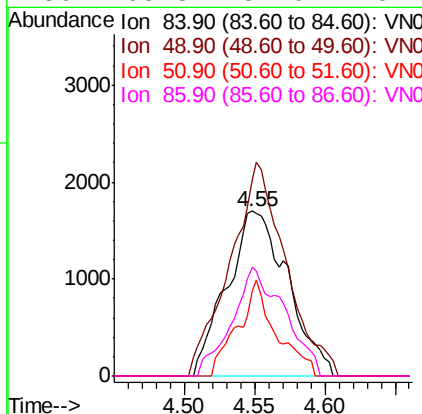
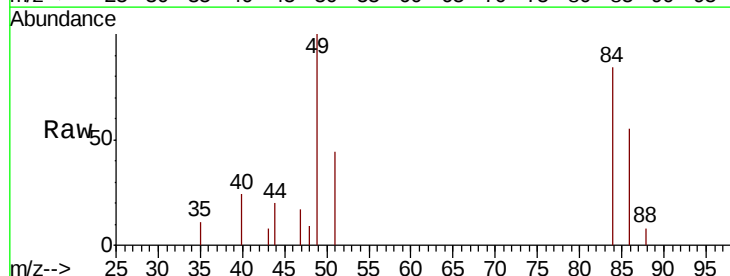
Instrument :
MSVOA_N
ClientSampleId :

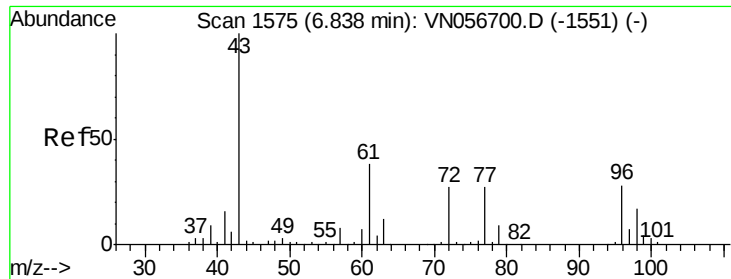
Tot Ion: 43 Resp: 7484
Ion Ratio Lower Upper
43 100
74 9.9 18.9 28.3#



#20
Methylene Chloride
Concen: 1.944 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.00 min
Lab File: VN056847.D
Acq: 19 Jul 2019 21:07

Tgt Ion: 84 Resp: 5124
Ion Ratio Lower Upper
84 100
49 119.6 98.2 147.4
51 52.4 29.6 44.4#
86 65.8 51.0 76.4





#25

2-Butanone

Concen: 2.486 ug/l

RT: 6.85 min Scan# 1580

Delta R.T. 0.02 min

Lab File: VN056847.D

Acq: 19 Jul 2019 21:07

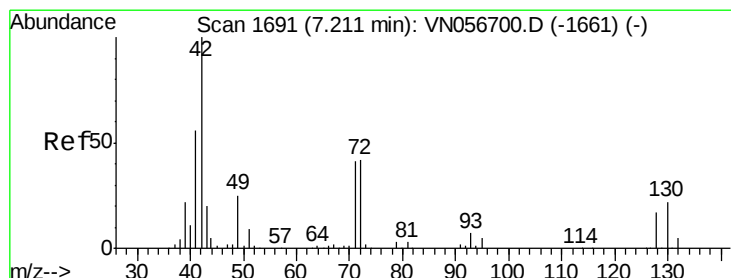
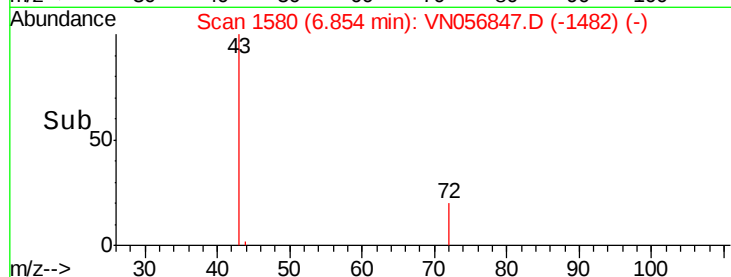
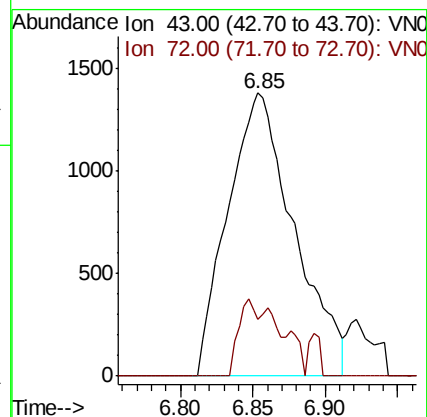
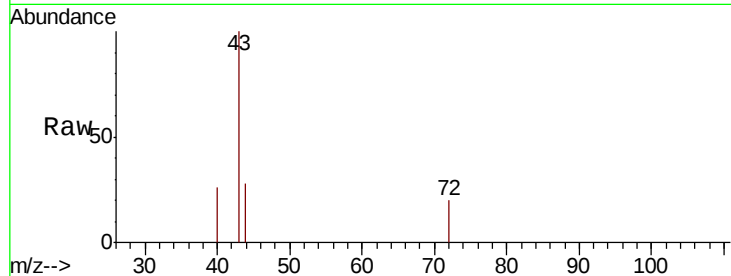
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 4384

Ion Ratio Lower Upper

43 100

72 20.3 21.2 31.8#



#29

Tetrahydrofuran

Concen: 0.619 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.02 min

Lab File: VN056847.D

Acq: 19 Jul 2019 21:07

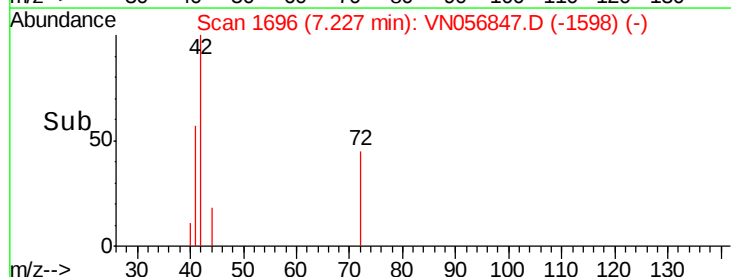
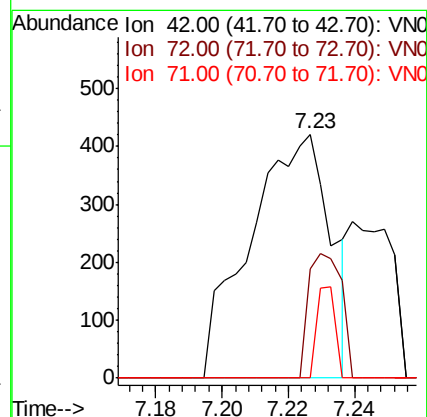
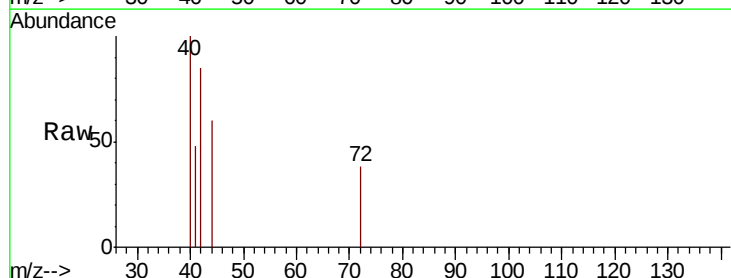
Tgt Ion: 42 Resp: 712

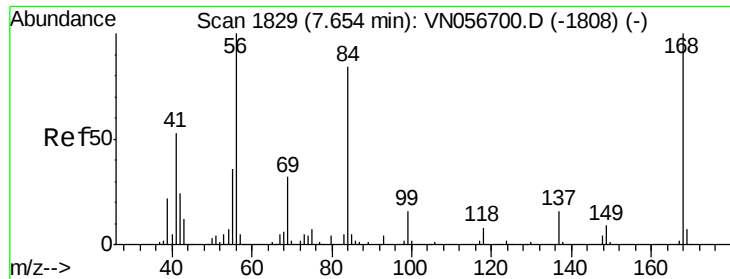
Ion Ratio Lower Upper

42 100

72 21.1 33.5 50.3#

71 8.4 31.8 47.8#

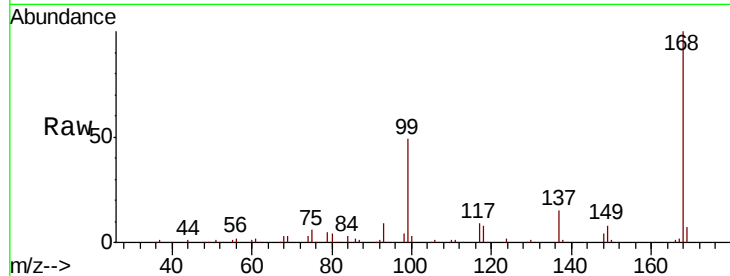




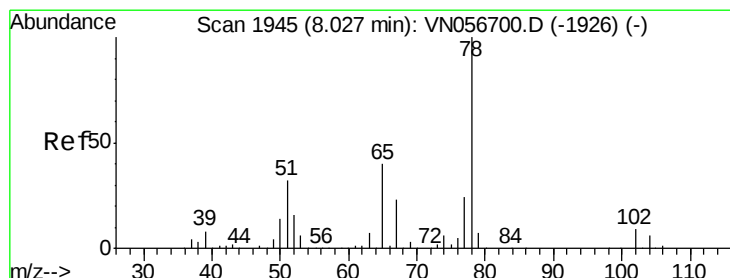
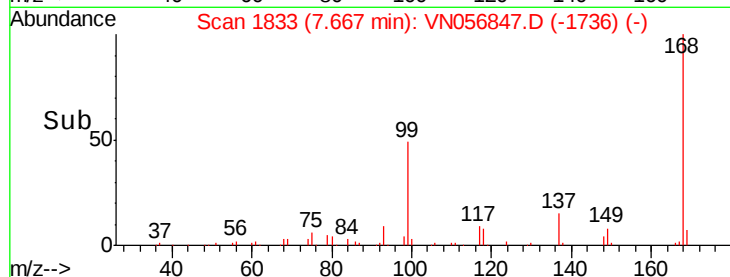
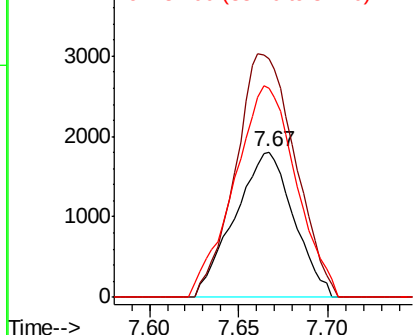
#31
Cyclohexane
Concen: 0.996 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN056847.D
Acq: 19 Jul 2019 21:07

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 4170
Ion Ratio Lower Upper
56 100
69 163.8 25.8 38.8#
84 143.7 67.4 101.0#

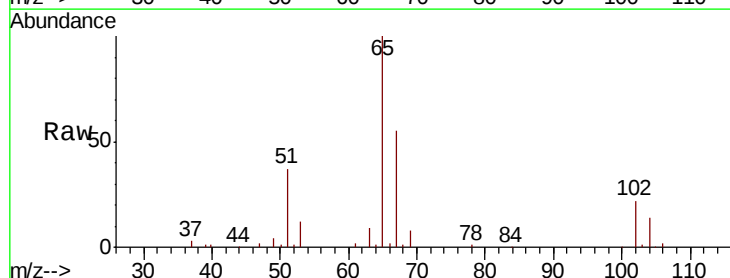


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

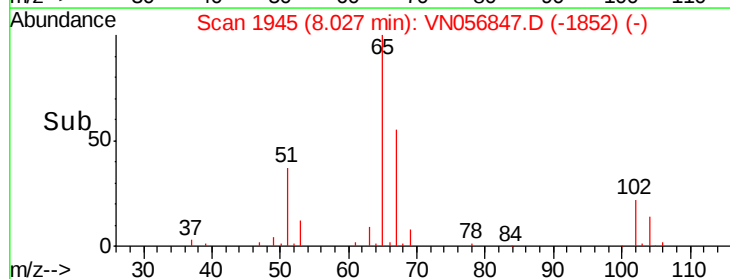
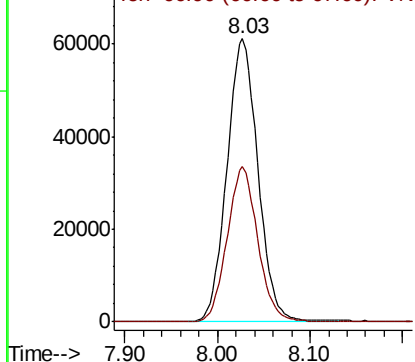


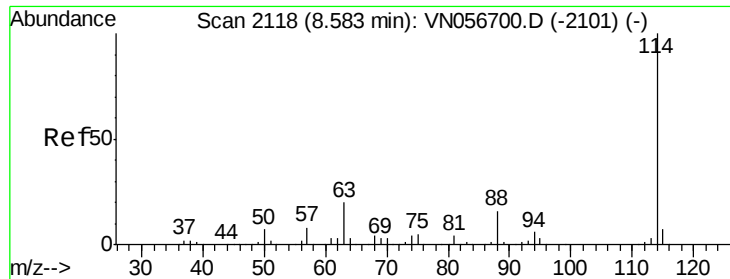
#33
1,2-Dichloroethane-d4
Concen: 54.150 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN056847.D
Acq: 19 Jul 2019 21:07

Tgt Ion: 65 Resp: 141762
Ion Ratio Lower Upper
65 100
67 54.2 0.0 109.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN056847.D

Acq: 19 Jul 2019 21:07

Instrument :

MSVOA_N

ClientSampleId :

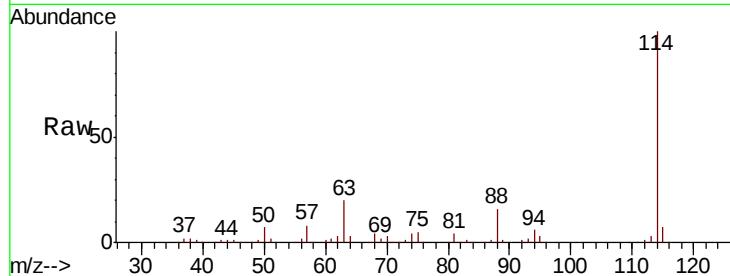
Tot Ion:114 Resp: 435981

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.4

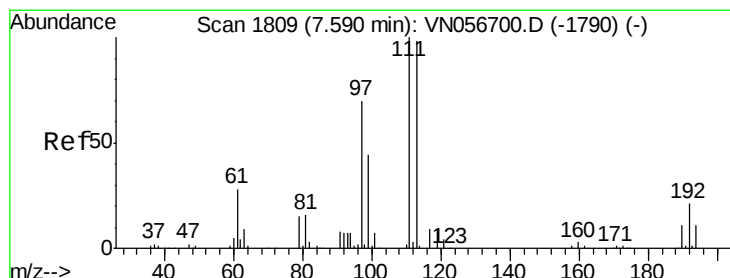
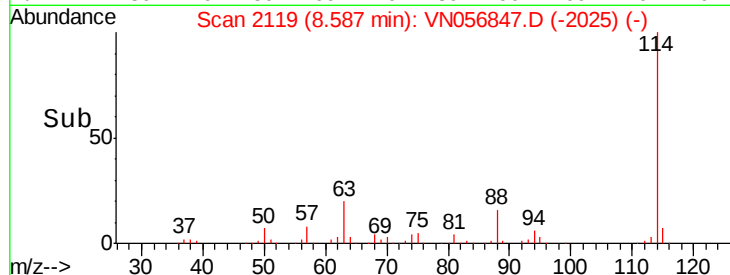
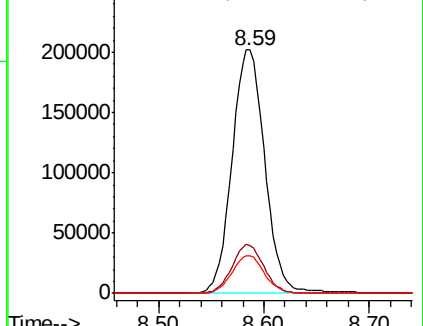
88 15.6 0.0 31.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 47.408 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN056847.D

Acq: 19 Jul 2019 21:07

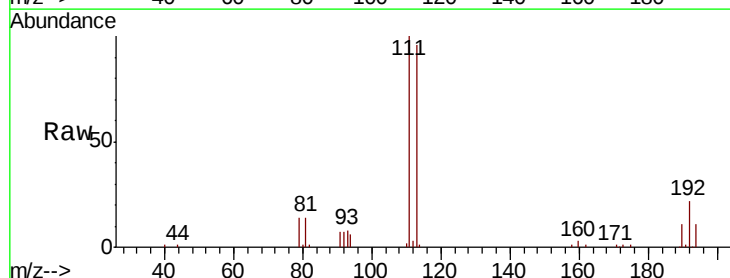
Tgt Ion:113 Resp: 128627

Ion Ratio Lower Upper

113 100

111 103.3 81.8 122.6

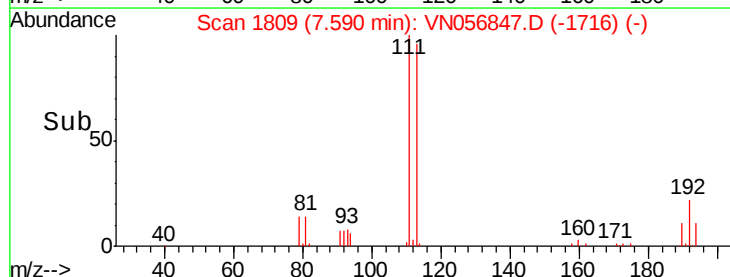
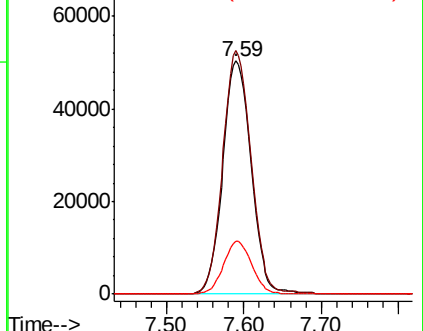
192 22.5 17.5 26.3

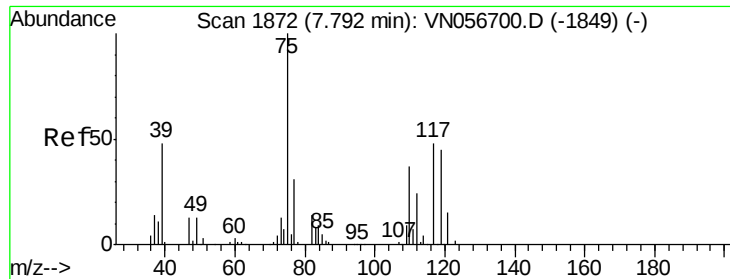


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

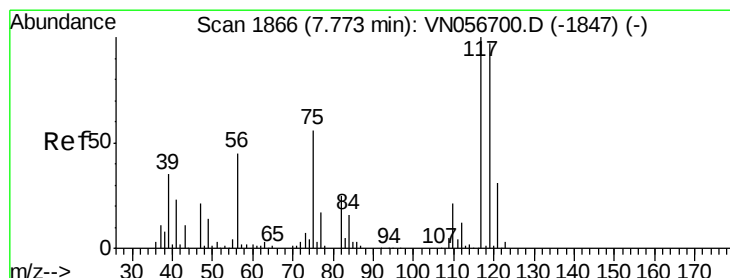
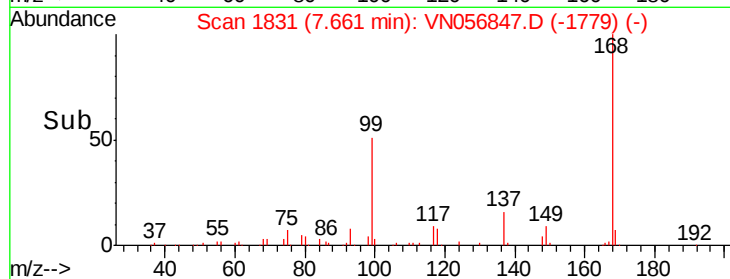
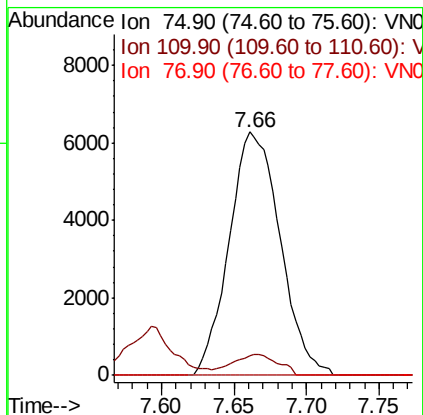
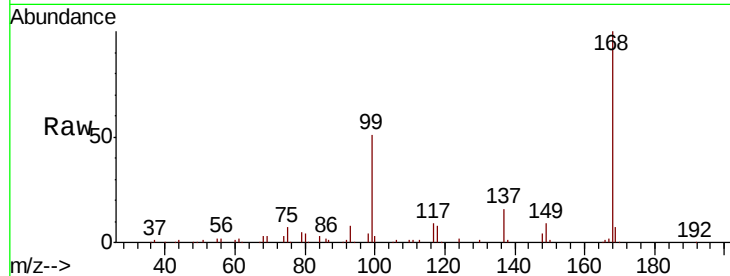




#36
 1,1-Dichloropropene
 Concen: 3.806 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN056847.D
 Acq: 19 Jul 2019 21:07

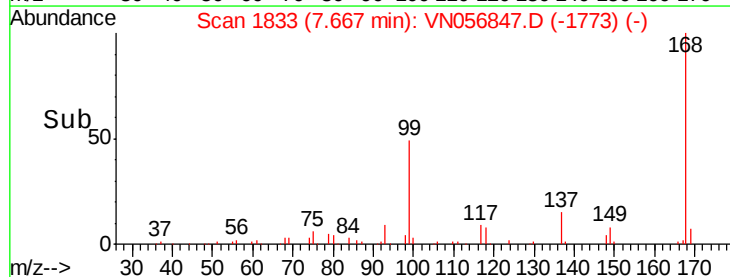
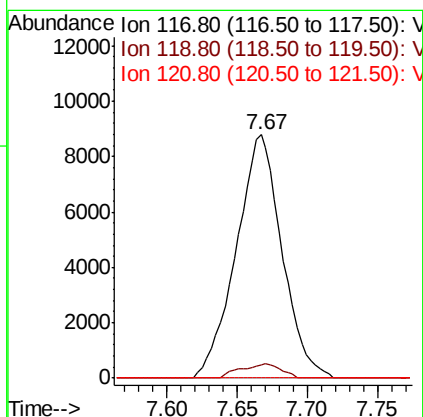
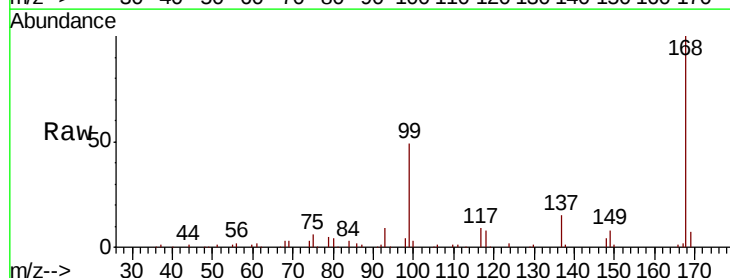
Instrument :
 MSVOA_N
 ClientSampleId :

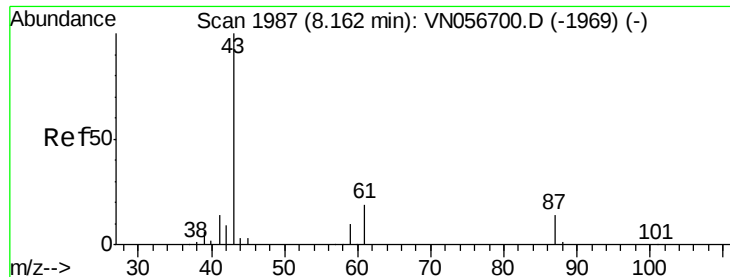
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.6	18.4	55.4#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.263 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN056847.D
 Acq: 19 Jul 2019 21:07

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	77.5	116.3#
121	0.0	24.7	37.1#





#43

Isopropyl Acetate

Concen: 2.633 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN056847.D

Acq: 19 Jul 2019 21:07

Instrument :

MSVOA_N

ClientSampled :

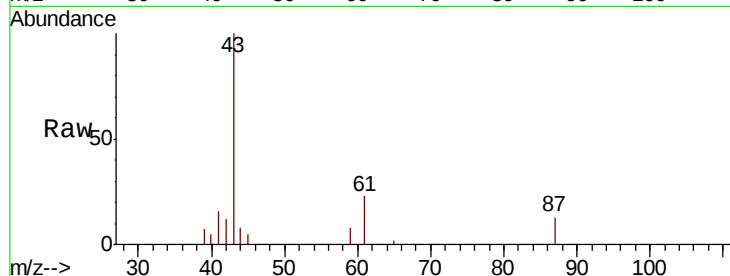
Tot Ion: 43 Resp: 16460

Ion Ratio Lower Upper

43 100

61 22.9 22.3 33.5

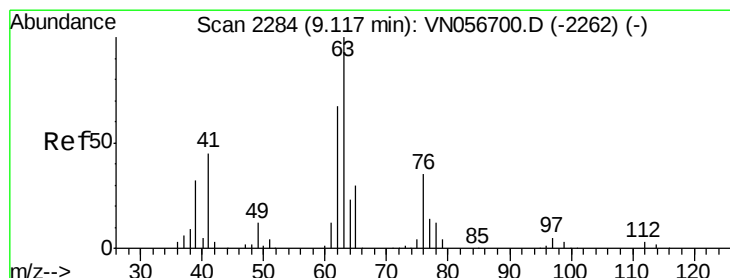
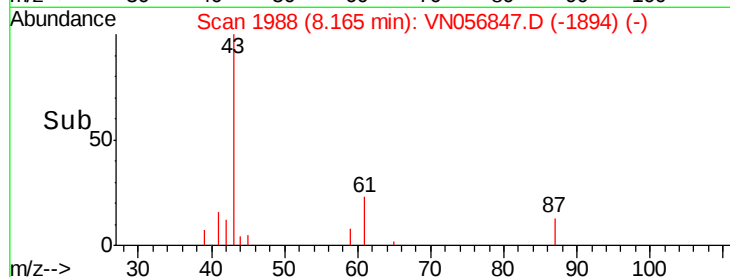
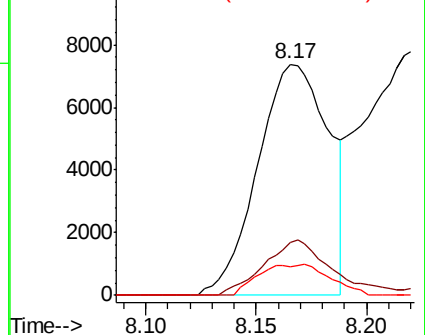
87 6.6 11.1 16.7#



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



#45

1,2-Dichloropropane

Concen: 0.393 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN056847.D

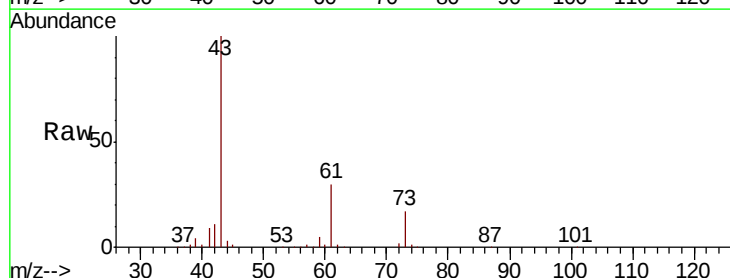
Acq: 19 Jul 2019 21:07

Tgt Ion: 63 Resp: 1290

Ion Ratio Lower Upper

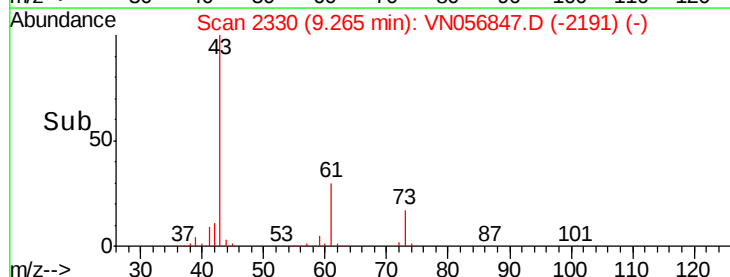
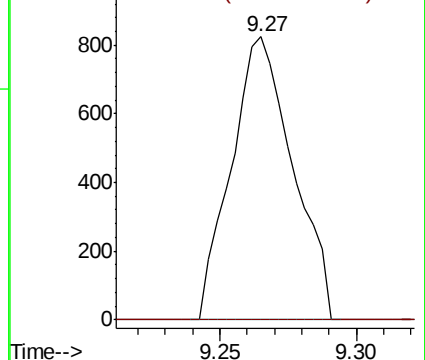
63 100

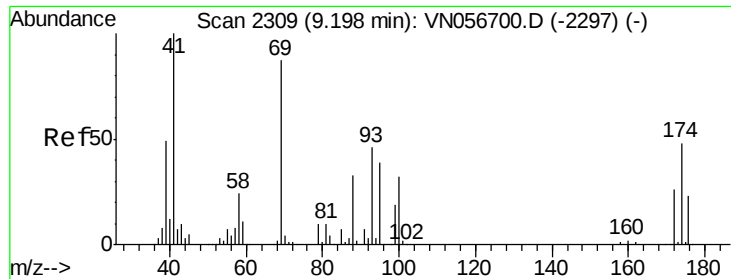
65 0.0 24.0 36.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

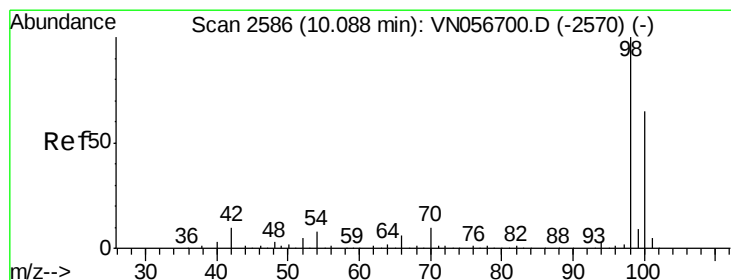
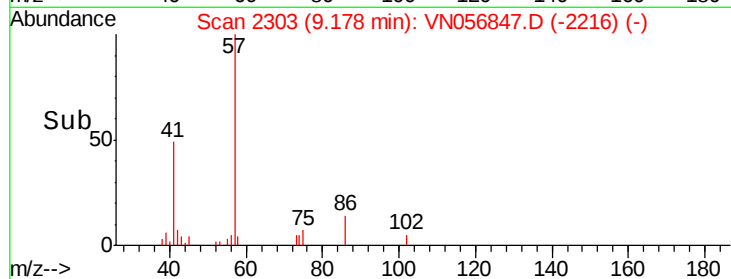
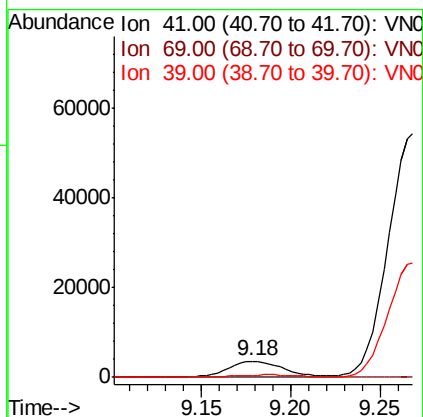
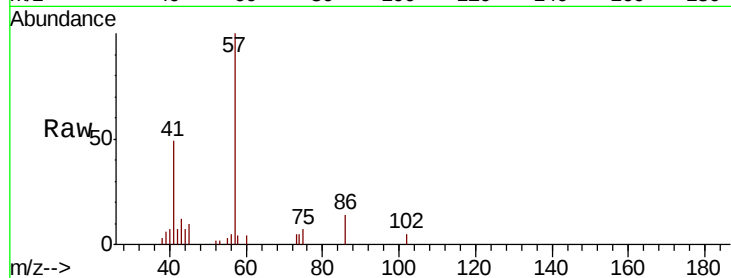




#48
Methvl methacrylate
Concen: 2.645 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN056847.D
Acq: 19 Jul 2019 21:07

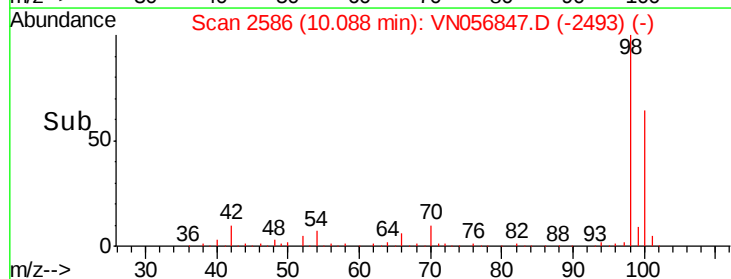
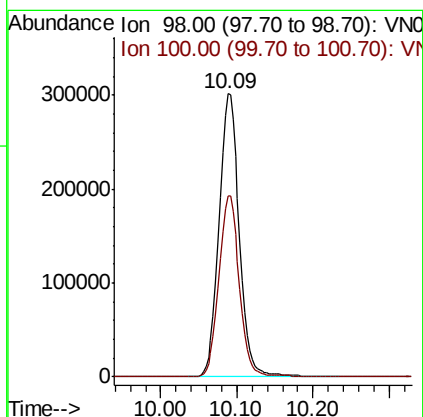
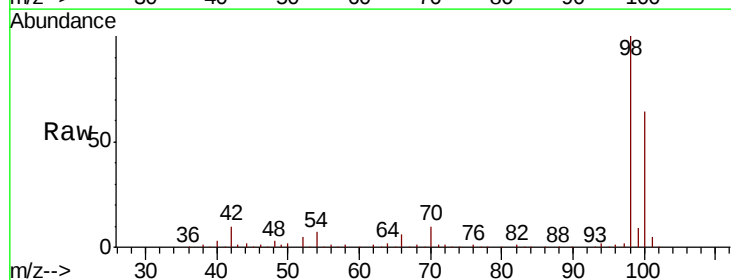
Instrument :
MSVOA_N
ClientSampled :

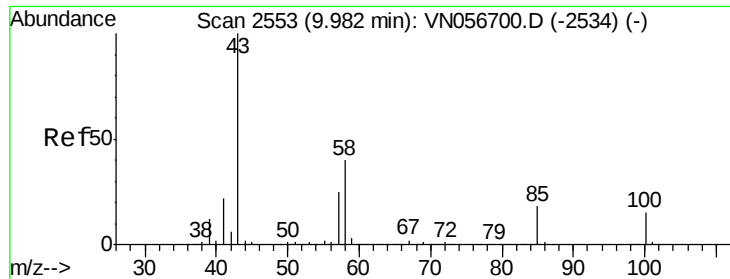
Tot Ion: 41 Resp: 7996
Ion Ratio Lower Upper
41 100
69 0.0 71.4 107.0#
39 0.0 41.2 61.8#



#50
Toluene-d8
Concen: 53.099 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN056847.D
Acq: 19 Jul 2019 21:07

Tgt Ion: 98 Resp: 556424
Ion Ratio Lower Upper
98 100
100 64.8 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 0.800 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN056847.D

Acq: 19 Jul 2019 21:07

Instrument :

MSVOA_N

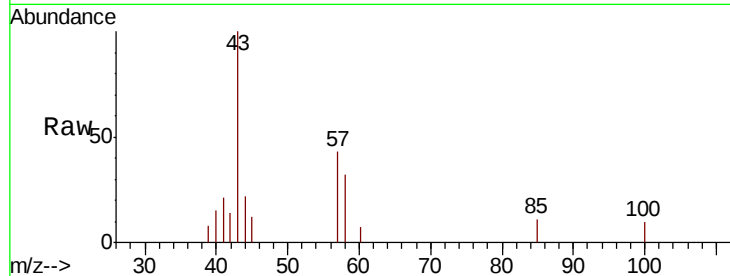
ClientSampled :

Tot Ion: 43 Resp: 3238

Ion Ratio Lower Upper

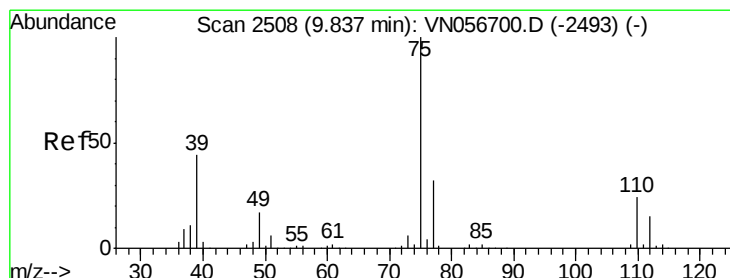
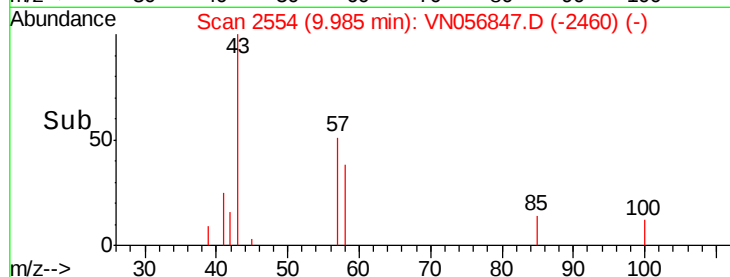
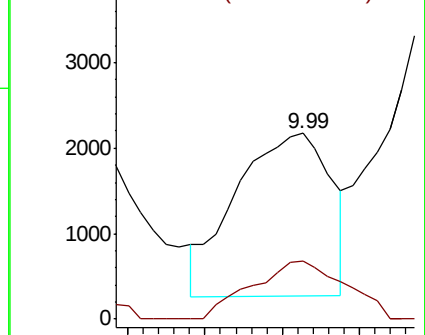
43 100

58 35.1 32.0 48.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 9.420 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.06 min

Lab File: VN056847.D

Acq: 19 Jul 2019 21:07

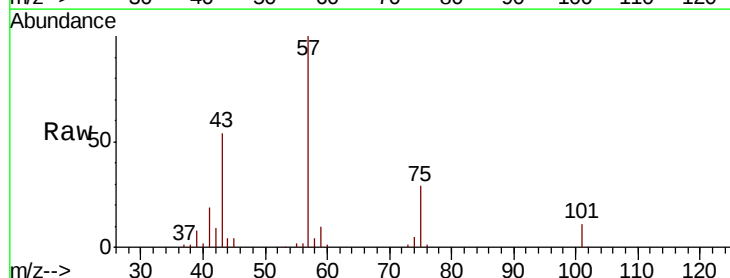
Tgt Ion: 75 Resp: 44115

Ion Ratio Lower Upper

75 100

77 0.0 26.0 39.0#

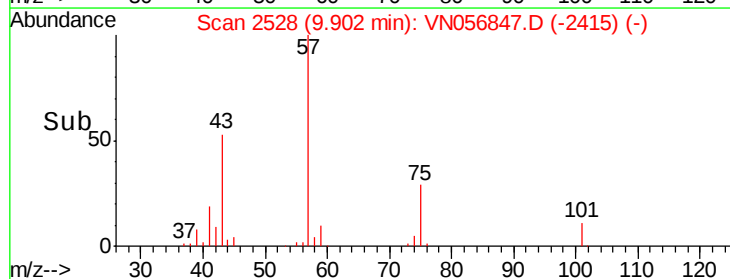
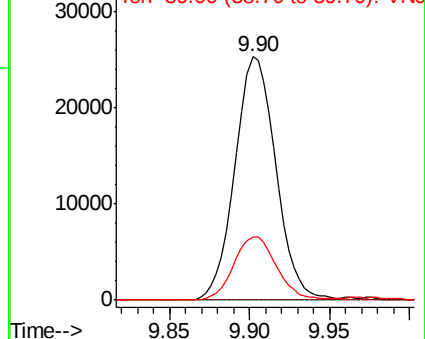
39 26.2 35.1 52.7#

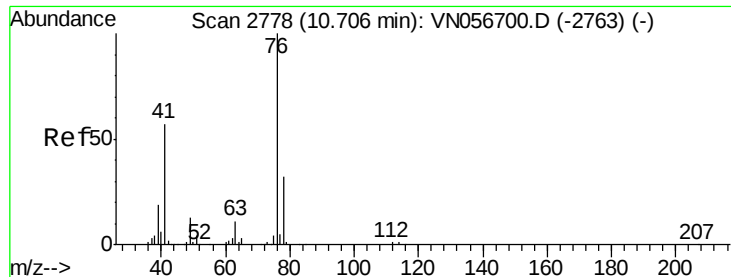


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

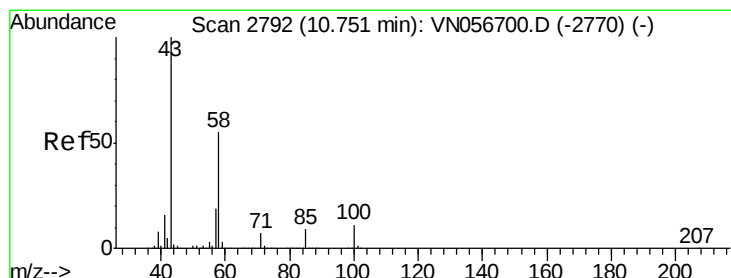
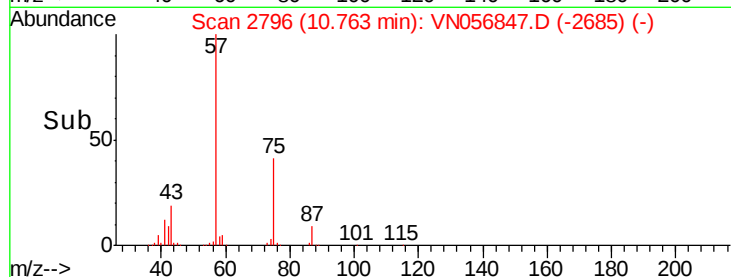
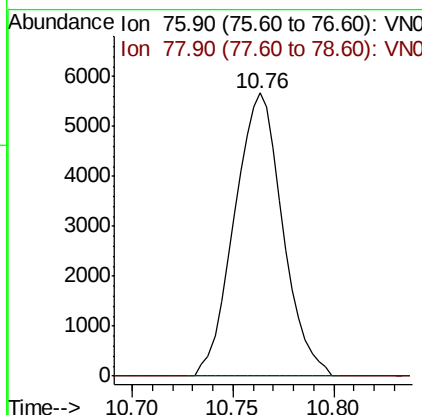
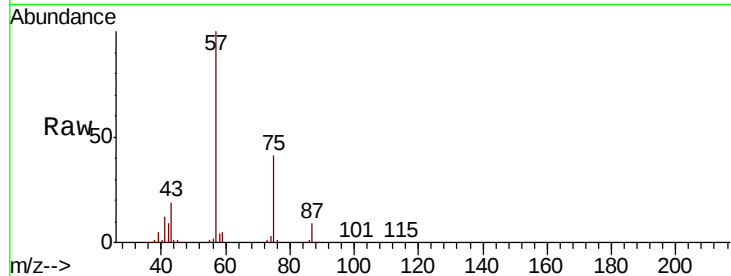




#57
 1,3-Dichloropropane
 Concen: 1.885 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN056847.D
 Acq: 19 Jul 2019 21:07

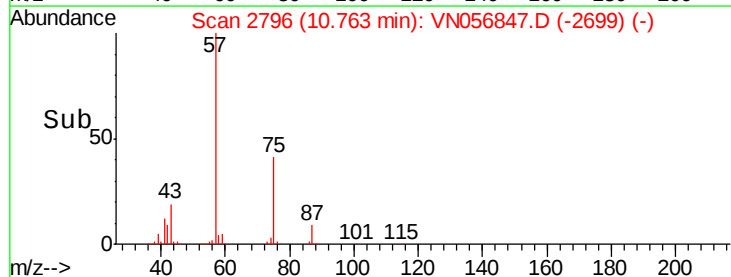
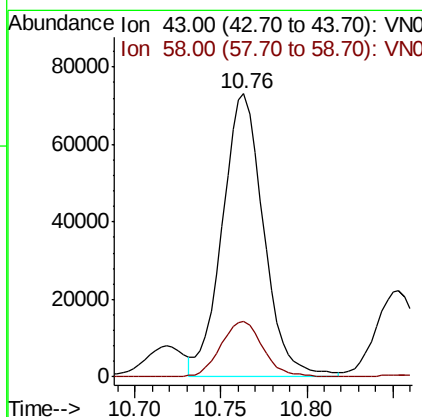
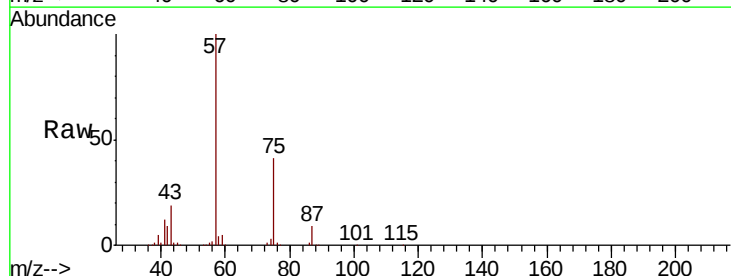
Instrument :
 MSVOA_N
 ClientSampleId :

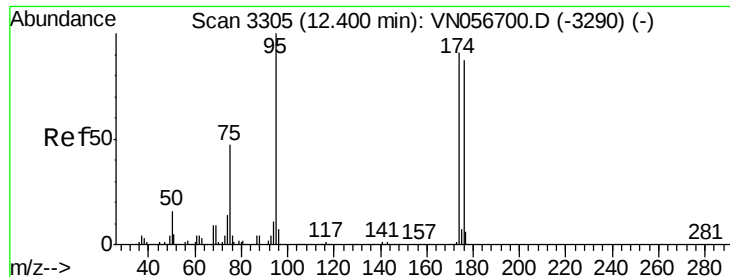
Tot Ion: 76 Resp: 9481
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#



#59
 2-Hexanone
 Concen: 41.837 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN056847.D
 Acq: 19 Jul 2019 21:07

Tgt Ion: 43 Resp: 121540
 Ion Ratio Lower Upper
 43 100
 58 20.4 27.9 83.6#





#62

4-Bromofluorobenzene

Concen: 58.189 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056847.D

Acq: 19 Jul 2019 21:07

Instrument :

MSVOA_N

ClientSampleId :

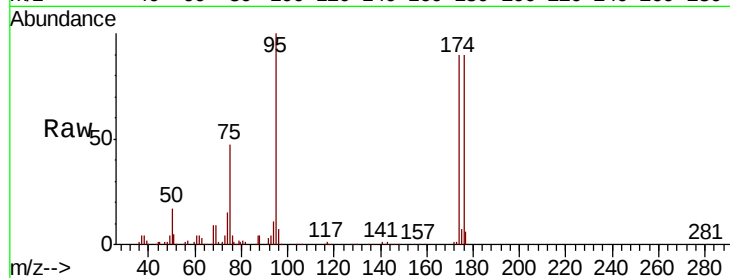
Tot Ion: 95 Resp: 205631

Ion Ratio Lower Upper

95 100

174 91.0 0.0 180.0

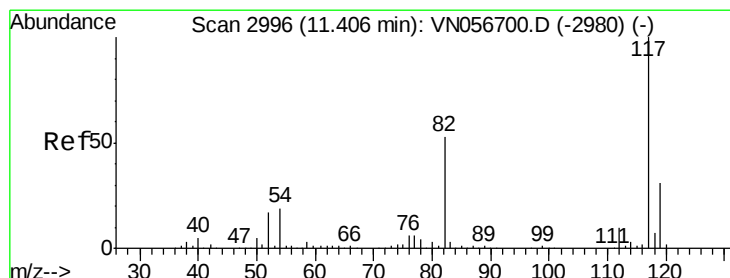
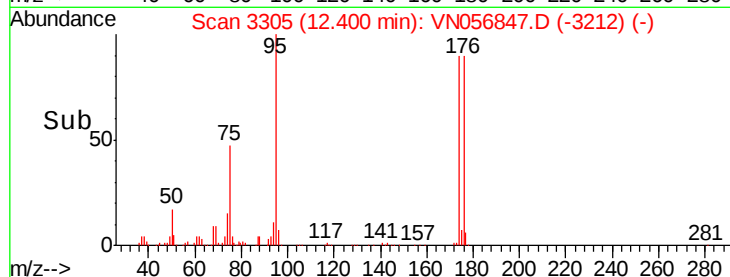
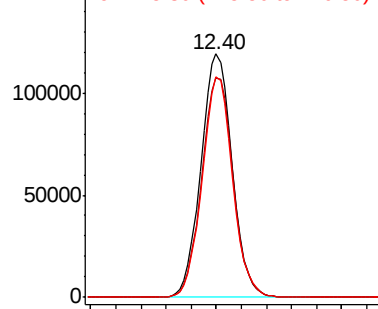
176 88.4 0.0 173.2



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN056847.D

Acq: 19 Jul 2019 21:07

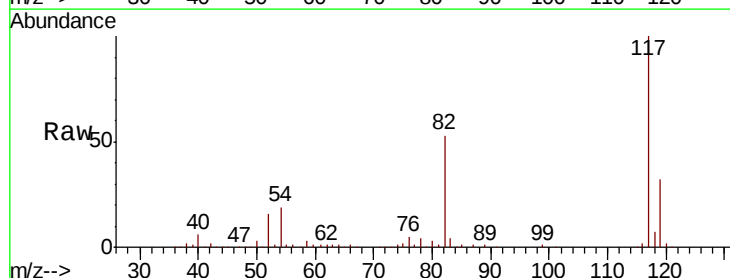
Tgt Ion: 117 Resp: 480823

Ion Ratio Lower Upper

117 100

82 53.2 42.2 63.2

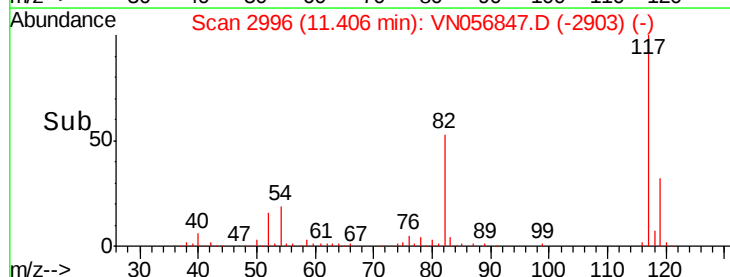
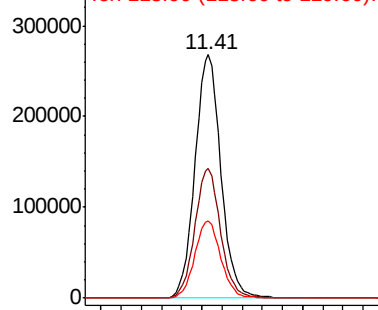
119 31.8 25.2 37.8

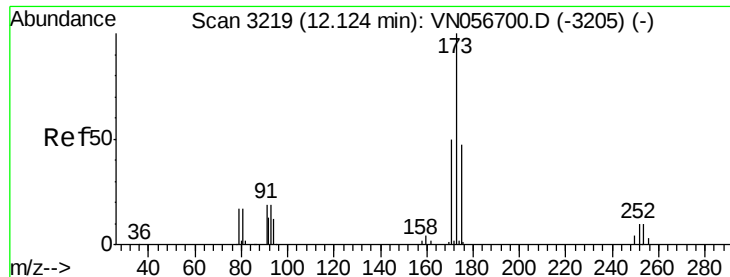


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 0.564 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.28 min

Lab File: VN056847.D

Acq: 19 Jul 2019 21:07

Instrument :

MSVOA_N

ClientSampled :

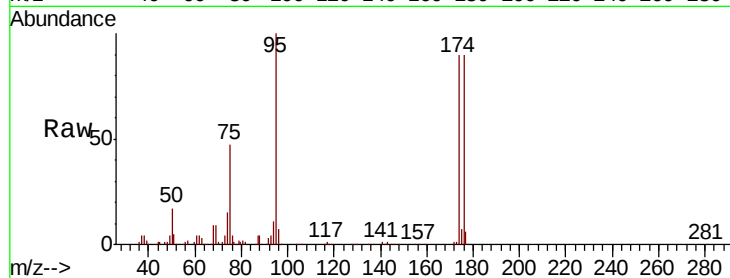
Tot Ion:173 Resp: 1554

Ion Ratio Lower Upper

173 100

175 760.1 23.8 71.4#

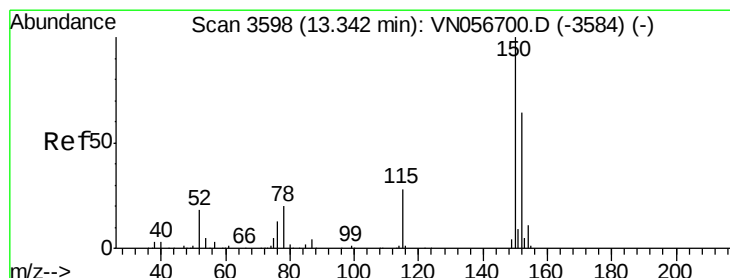
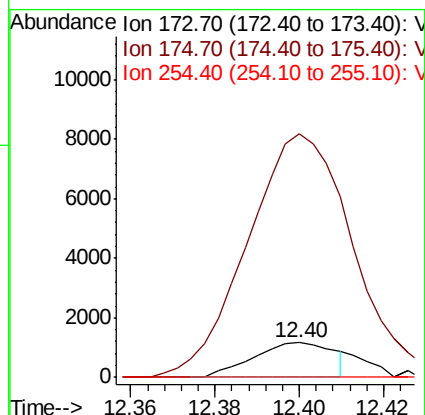
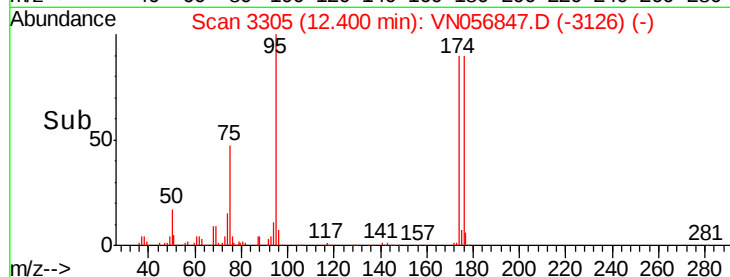
254 0.0 0.0 0.0



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: VN056847.D

Acq: 19 Jul 2019 21:07

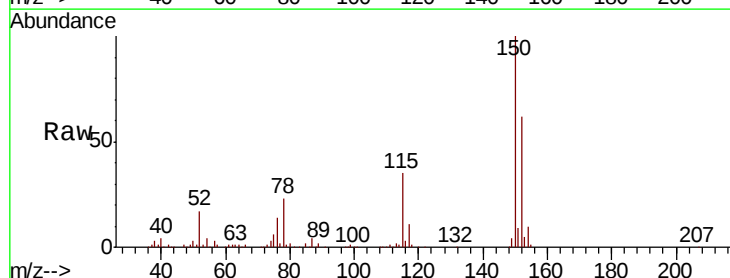
Tgt Ion:152 Resp: 167025

Ion Ratio Lower Upper

152 100

115 55.1 28.2 84.7

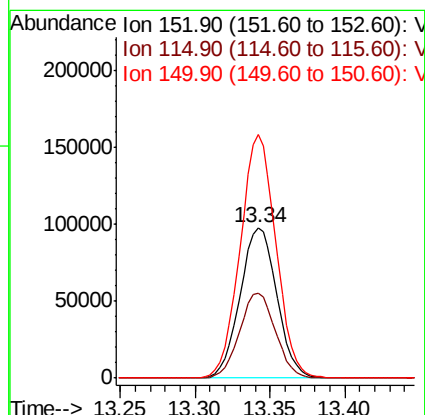
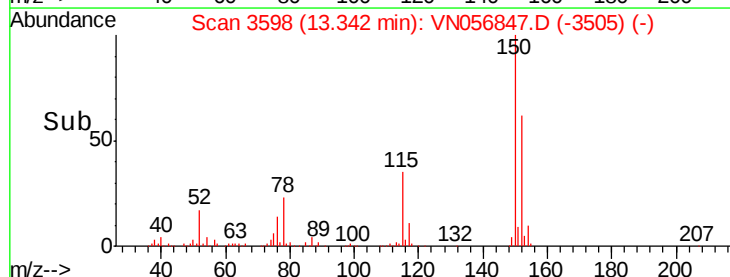
150 157.3 0.0 345.8

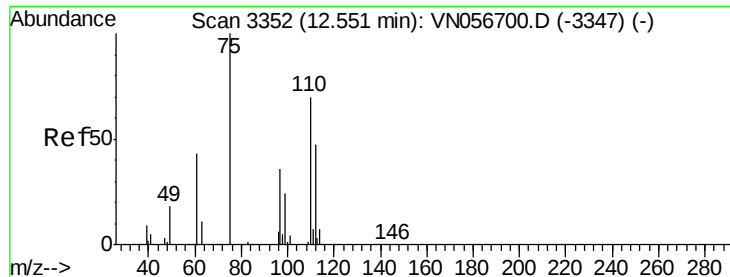


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.182 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056847.D

Acq: 19 Jul 2019 21:07

Instrument :

MSVOA_N

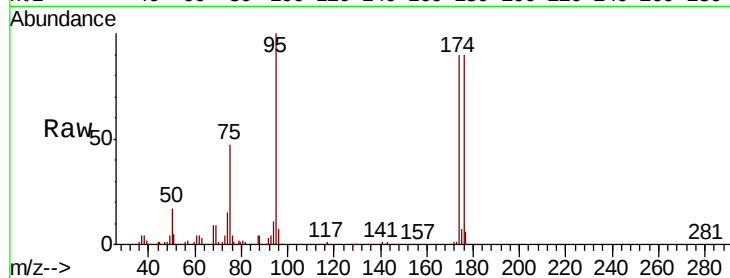
ClientSampleId :

Tot Ion: 75 Resp: 95645

Ion Ratio Lower Upper

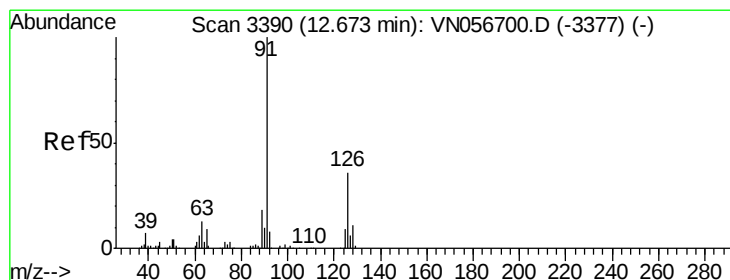
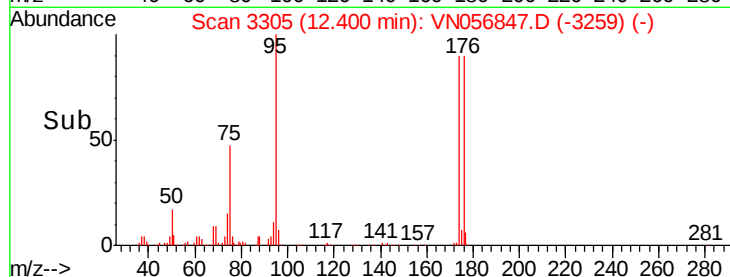
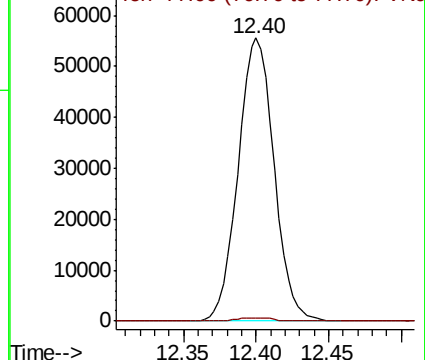
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. -0.27 min

Lab File: VN056847.D

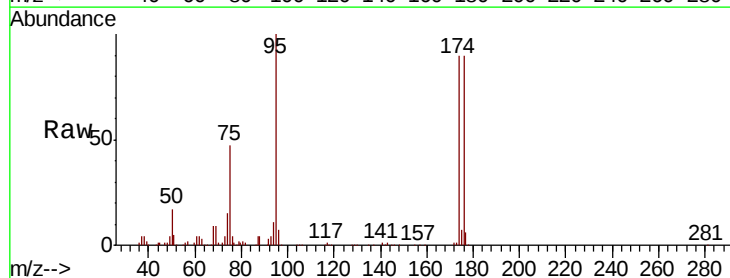
Acq: 19 Jul 2019 21:07

Tgt Ion: 91 Resp: 466

Ion Ratio Lower Upper

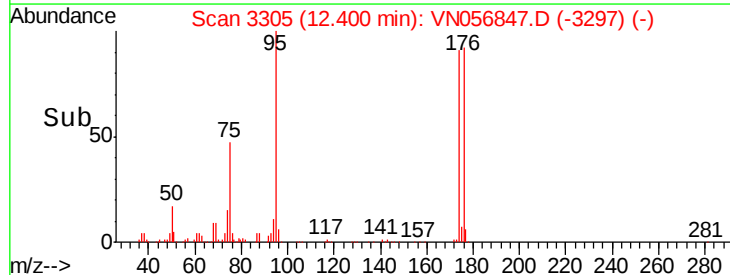
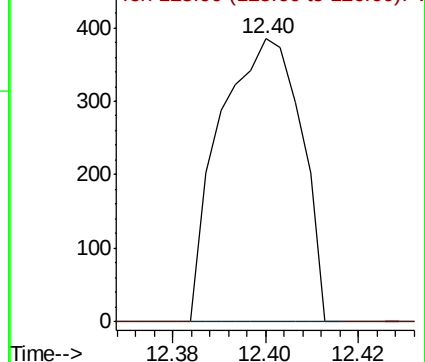
91 100

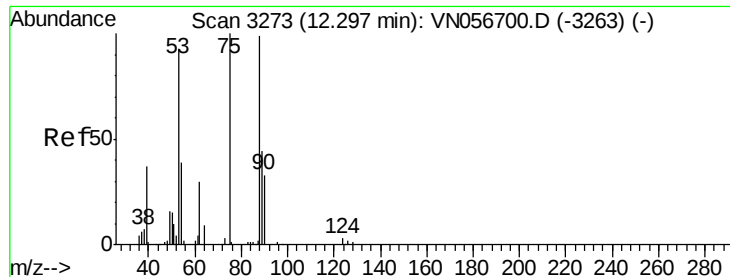
126 0.0 17.9 53.7#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 80.858 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056847.D

Acq: 19 Jul 2019 21:07

Instrument :

MSVOA_N

ClientSampleId :

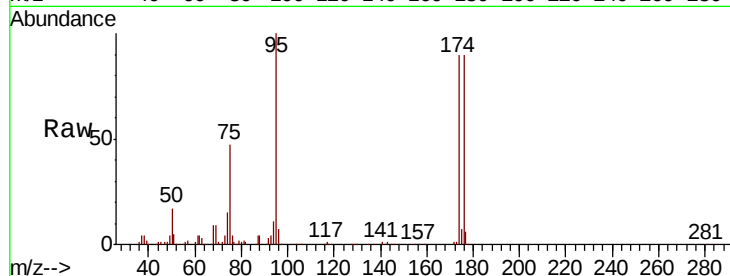
Tot Ion: 75 Resp: 95645

Ion Ratio Lower Upper

75 100

53 0.0 73.7 110.5#

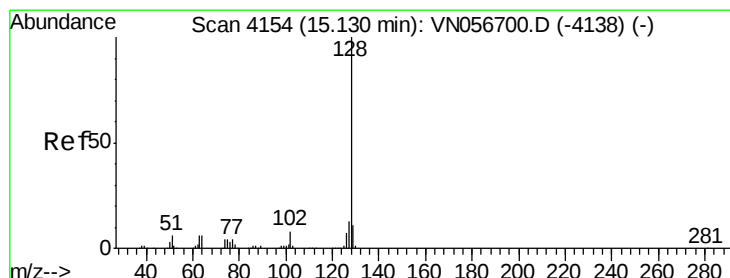
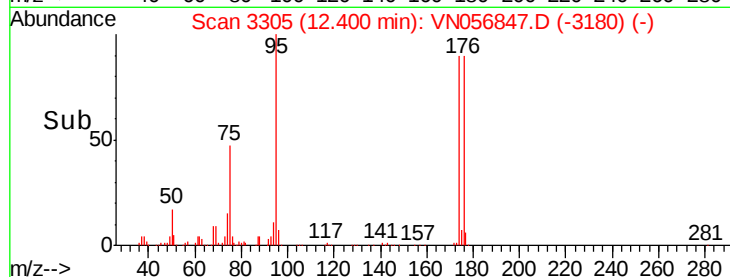
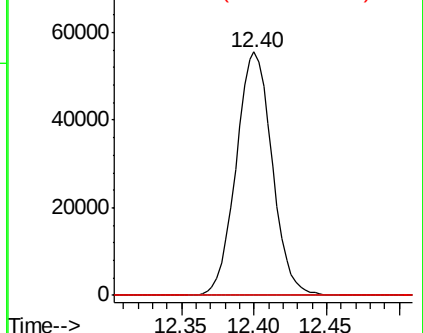
89 0.0 36.2 54.2#



Abundance Ion 74.90 (74.60 to 75.60): VN056700.D (-3263) (-)

Ion 53.00 (52.70 to 53.70): VN056700.D (-3263) (-)

Ion 88.90 (88.60 to 89.60): VN056700.D (-3263) (-)



#95

Naphthalene

Concen: 4.565 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN056847.D

Acq: 19 Jul 2019 21:07

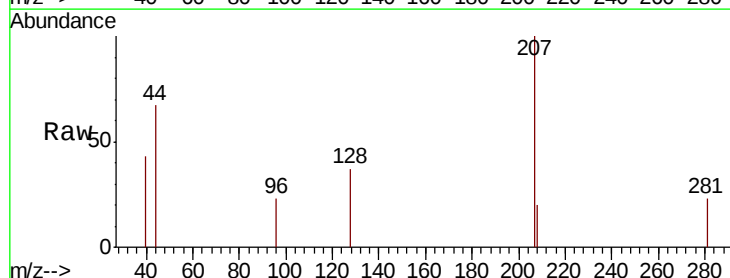
Tgt Ion: 128 Resp: 390

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): VN056700.D (-4138) (-)

Ion 127.00 (126.70 to 127.70): VN056700.D (-4138) (-)

Ion 129.00 (128.70 to 129.70): VN056700.D (-4138) (-)

