

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041919\
 Data File : VN055162.D
 Acq On : 20 Apr 2019 1:28
 Operator : JC/SP
 Sample : K2203-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SU-02-041819-B

Quant Time: Apr 20 04:30:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041519W.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 15 12:28:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	512507	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	834189	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	676596	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	202349	50.00	ug/l	0.00

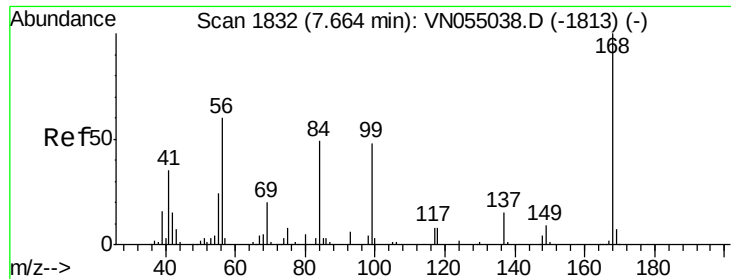
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	332971	48.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.76%	
35) Dibromofluoromethane	7.59	113	267383	47.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.92%	
50) Toluene-d8	10.09	98	972600	48.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.48%	
62) 4-Bromofluorobenzene	12.40	95	277219	42.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.48%	

Target Compounds

					Qvalue	
16) Acetone	3.82	43	8693	4.701	ug/l #	82
18) Methyl Acetate	4.33	43	6453	0.780	ug/l #	90
20) Methylene Chloride	4.55	84	12943	1.991	ug/l #	95
25) 2-Butanone	6.84	43	729	0.264	ug/l #	53
29) Tetrahydrofuran	7.21	42	847	0.468	ug/l #	78
31) Cyclohexane	7.67	56	10285	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	39043	4.965	ug/l #	50
38) Carbon Tetrachloride	7.67	117	46822	6.258	ug/l #	17
43) Isopropyl Acetate	8.17	43	22159	2.246	ug/l	94
45) 1,2-Dichloropropane	9.27	63	1989	0.301	ug/l #	44
48) Methyl methacrylate	9.18	41	8283	1.694	ug/l #	17
49) 1,4-Dioxane	9.28	88	62	1.353	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	5927	1.040	ug/l #	80
54) cis-1,3-Dichloropropene	9.90	75	57245	6.804	ug/l #	65
57) 1,3-Dichloropropane	10.77	76	10879	1.222	ug/l #	43
59) 2-Hexanone	10.76	43	175654	49.072	ug/l #	54
71) Bromoform	12.41	173	2503	0.872	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	141780	38.964	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	141780	155.812	ug/l #	2
95) Naphthalene	15.14	128	1556	3.281	ug/l #	75

(#) = 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: VN055162.D

Acq: 20 Apr 2019 1:28

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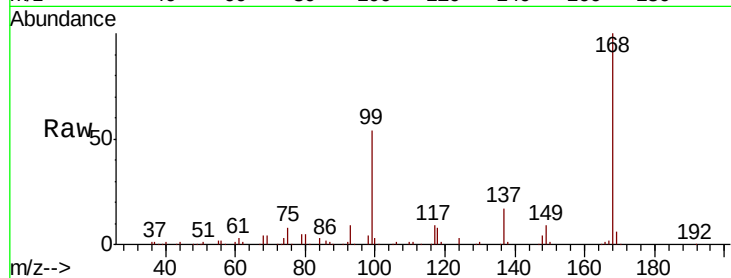
SU-02-041819-B

Tot Ion:168 Resp: 512507

Ion Ratio Lower Upper

168 100

99 53.8 41.9 62.9



Abundance Ion 167.90 (167.60 to 168.60): VN055162.D (-1739) (-)

Ion 98.90 (98.60 to 99.60): VN055162.D (-1739) (-)

7.67

250000

200000

150000

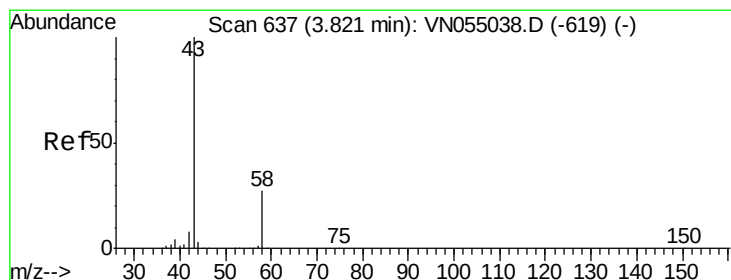
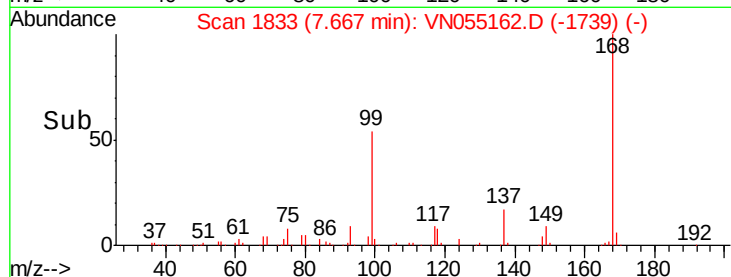
100000

50000

0

Time-->

7.55 7.60 7.65 7.70 7.75



#16

Acetone

Concen: 4.701 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN055162.D

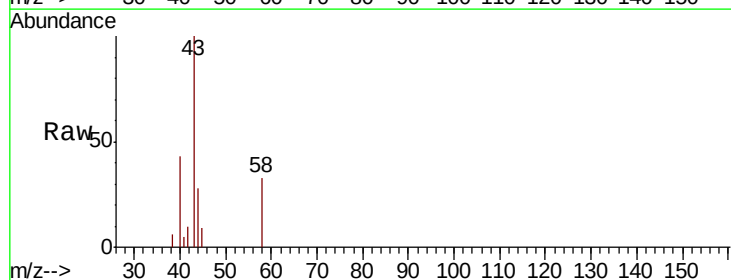
Acq: 20 Apr 2019 1:28

Tgt Ion: 43 Resp: 8693

Ion Ratio Lower Upper

43 100

58 35.4 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VN055162.D (-544) (-)

Ion 58.00 (57.70 to 58.70): VN055162.D (-544) (-)

3.82

3000

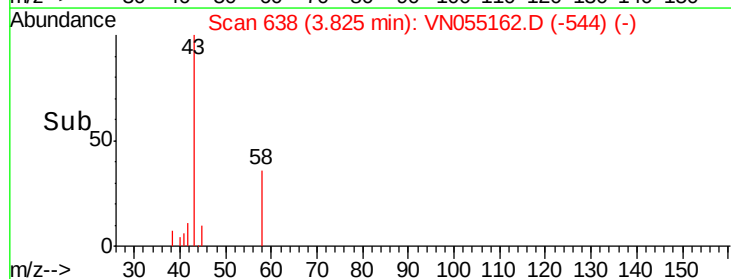
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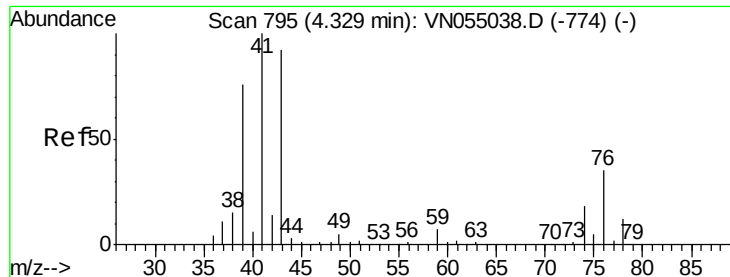
1000

0

Time-->

3.75 3.80 3.85 3.90

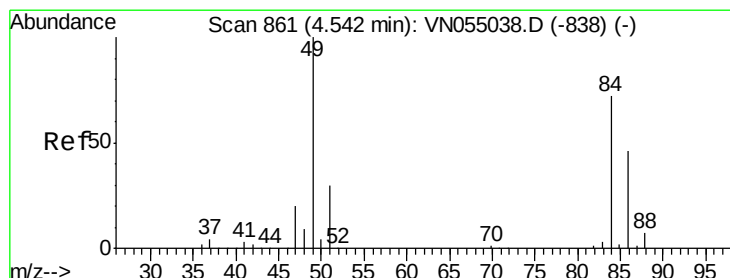
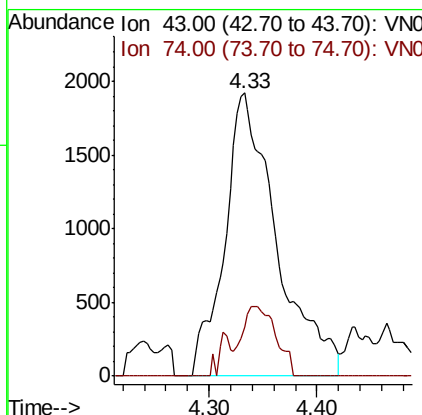
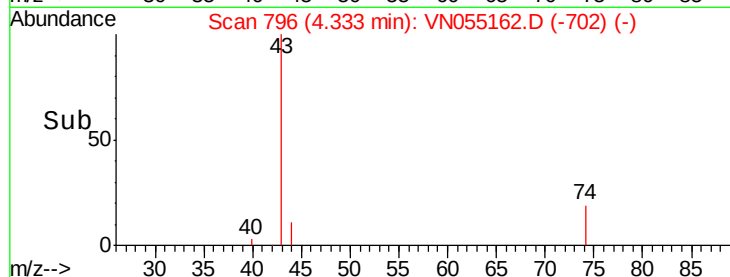
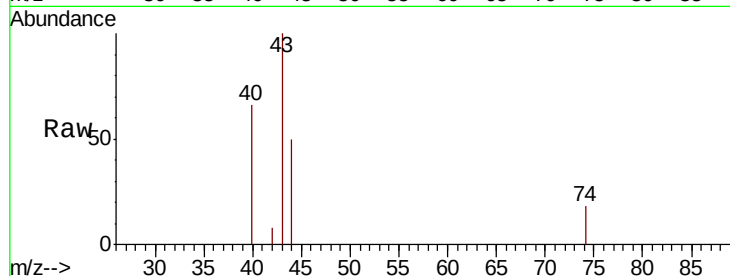




#18
Methyl Acetate
Concen: 0.780 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN055162.D
Acq: 20 Apr 2019 1:28

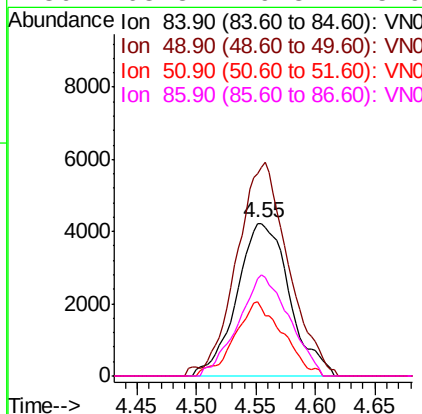
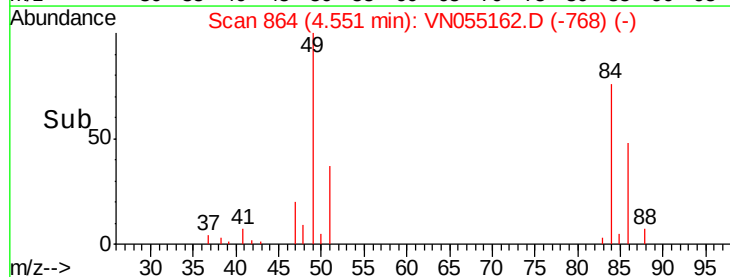
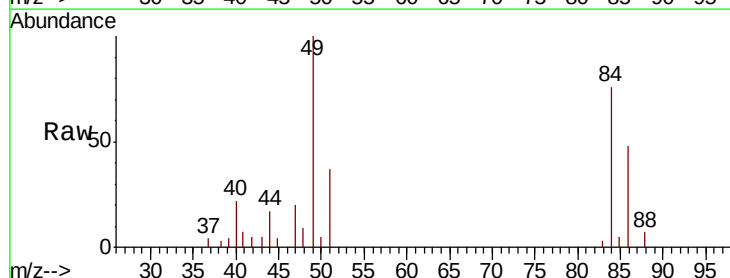
Instrument :
MSVOA_N
ClientSampleId :
SU-02-041819-B

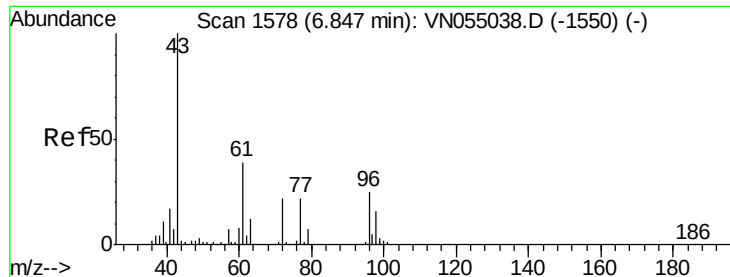
Tot Ion: 43 Resp: 6453
Ion Ratio Lower Upper
43 100
74 15.7 16.1 24.1#



#20
Methylene Chloride
Concen: 1.991 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.01 min
Lab File: VN055162.D
Acq: 20 Apr 2019 1:28

Tgt Ion: 84 Resp: 12943
Ion Ratio Lower Upper
84 100
49 132.0 109.4 164.2
51 48.6 32.2 48.4#
86 63.3 49.3 73.9

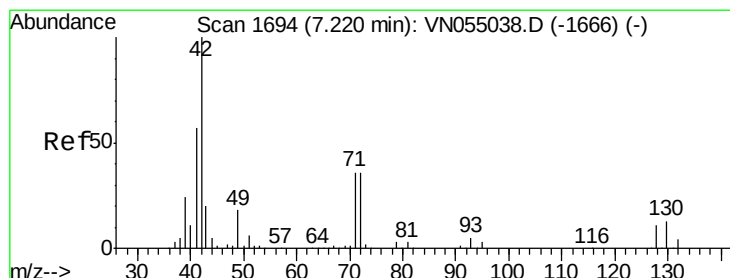
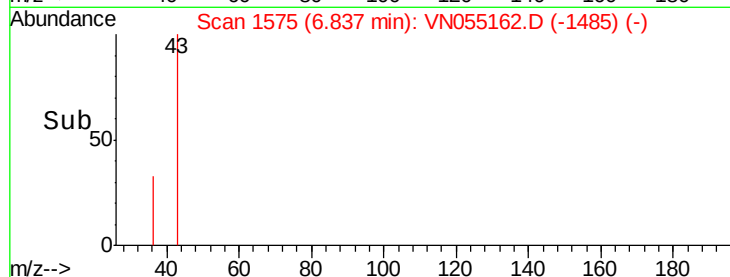
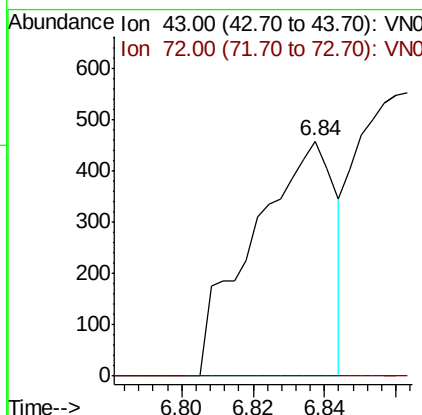
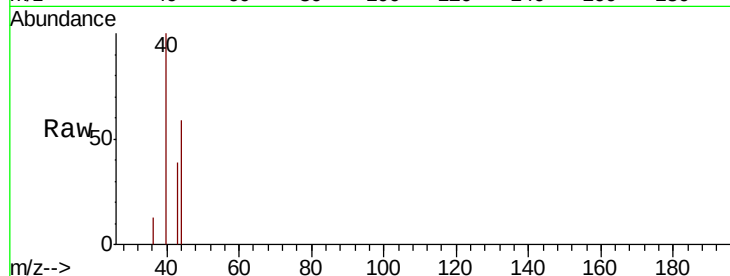




#25
2-Butanone
Concen: 0.264 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. -0.01 min
Lab File: VN055162.D
Acq: 20 Apr 2019 1:28

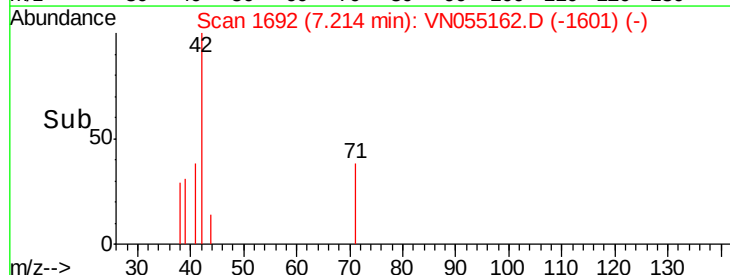
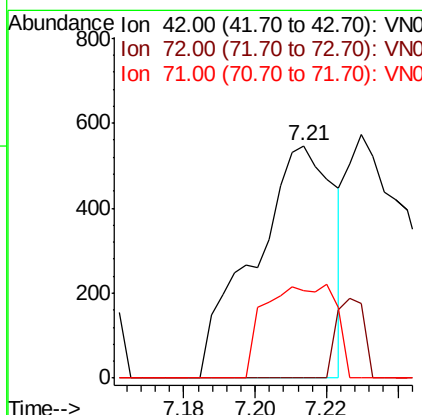
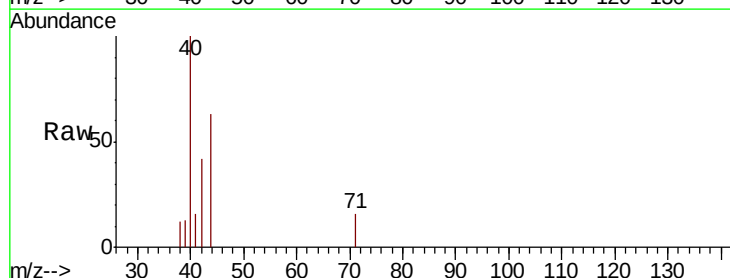
Instrument :
MSVOA_N
ClientSampleId :
SU-02-041819-B

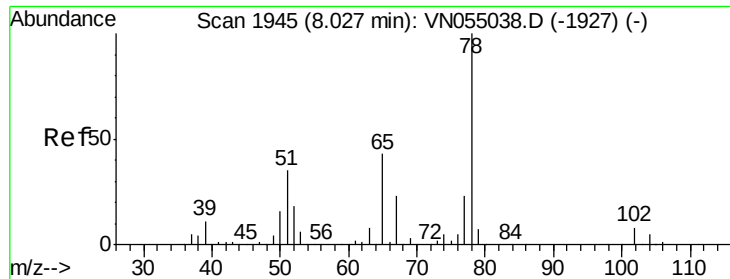
Tot Ion: 43 Resp: 729
Ion Ratio Lower Upper
43 100
72 0.0 18.1 27.1#



#29
Tetrahydrofuran
Concen: 0.468 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. -0.01 min
Lab File: VN055162.D
Acq: 20 Apr 2019 1:28

Tgt Ion: 42 Resp: 847
Ion Ratio Lower Upper
42 100
72 11.9 29.4 44.0#
71 35.3 27.8 41.6

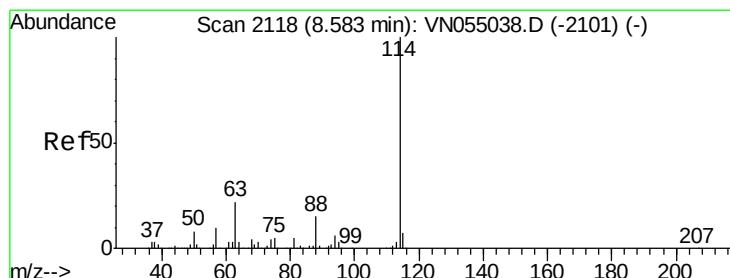
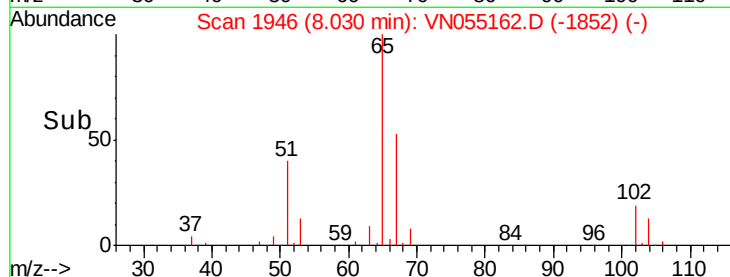
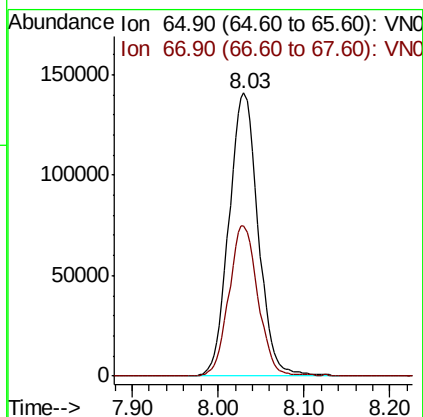
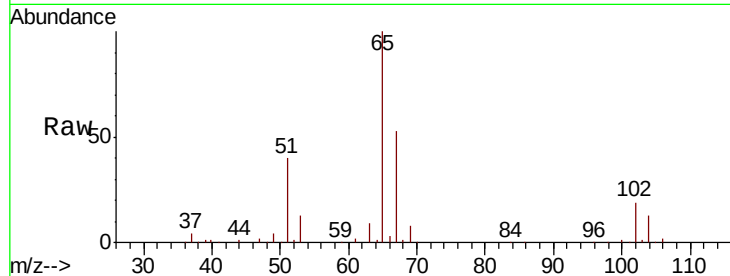




#33
 1,2-Dichloroethane-d4
 Concen: 48.877 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN055162.D
 Acq: 20 Apr 2019 1:28

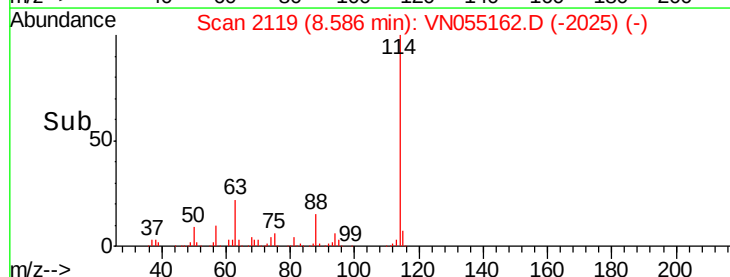
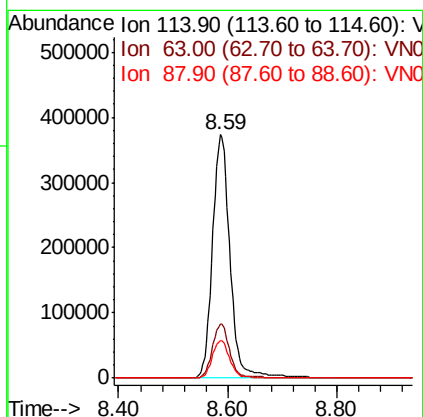
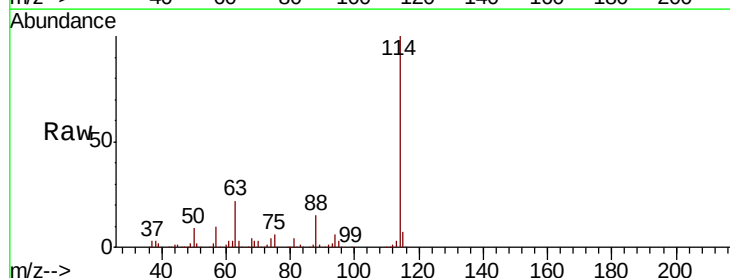
Instrument :
 MSVOA_N
 ClientSampleId :
 SU-02-041819-B

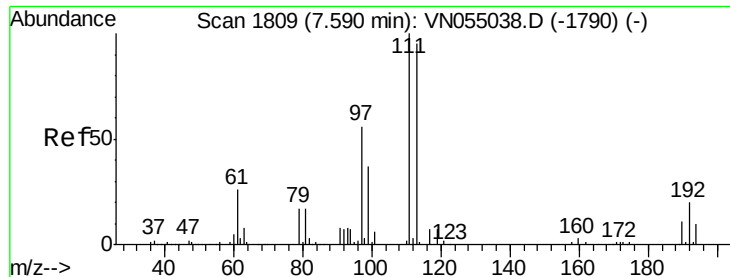
Tot Ion: 65 Resp: 332971
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 106.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055162.D
 Acq: 20 Apr 2019 1:28

Tgt Ion: 114 Resp: 834189
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 45.2
 88 15.5 0.0 31.8

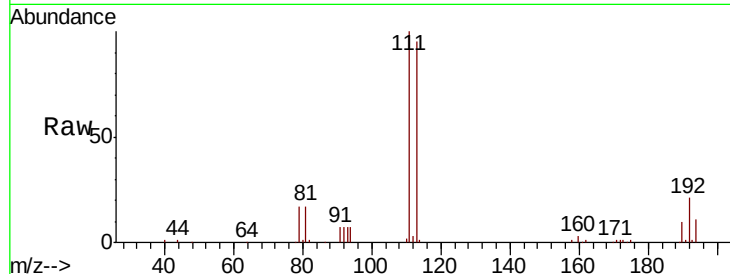




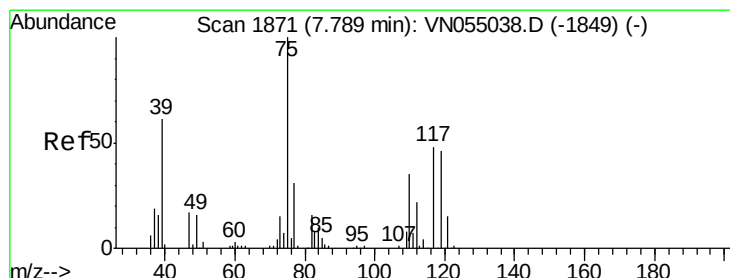
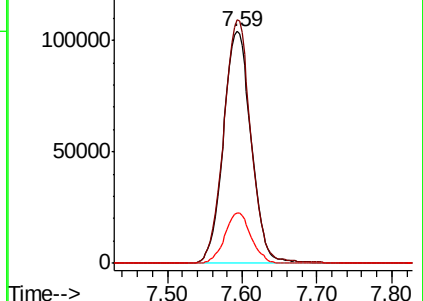
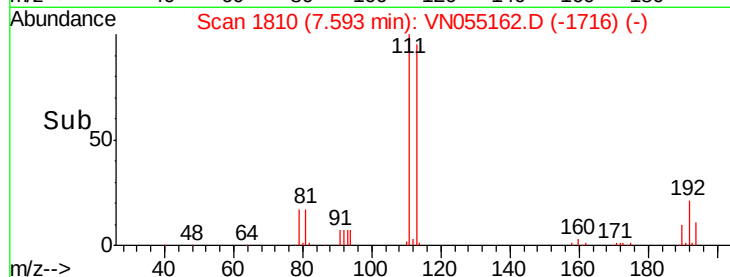
#35
 Dibromofluoromethane
 Concen: 47.962 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN055162.D
 Acq: 20 Apr 2019 1:28

Instrument :
 MSVOA_N
 ClientSampleId :
 SU-02-041819-B

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.1	123.1
192	20.7	16.5	24.7

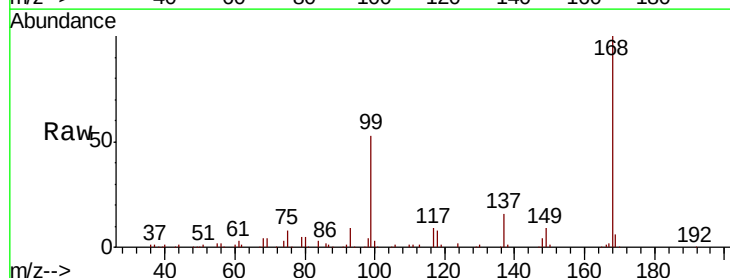


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

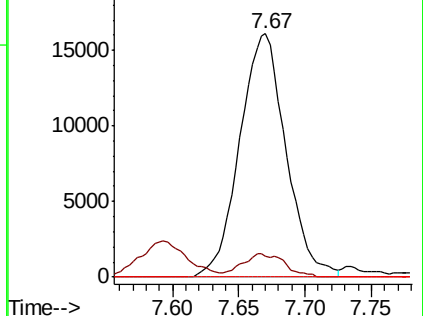
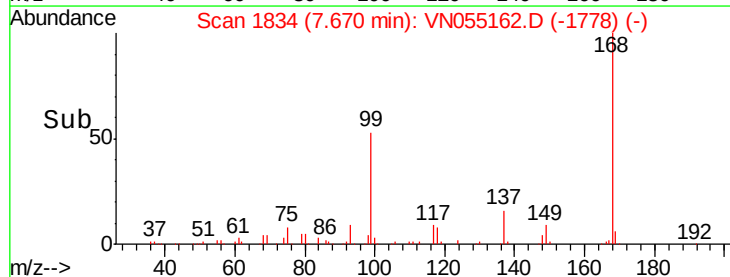


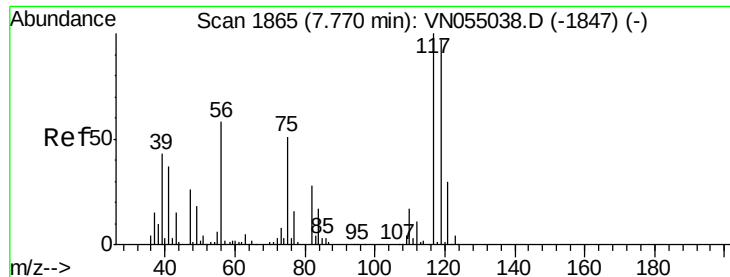
#36
 1,1-Dichloropropene
 Concen: 4.965 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN055162.D
 Acq: 20 Apr 2019 1:28

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.8	17.5	52.5#
77	0.0	24.9	37.3#



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: 6.258 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.10 min

Lab File: VN055162.D

Acq: 20 Apr 2019 1:28

Instrument :

MSVOA_N

ClientSampleId :

SU-02-041819-B

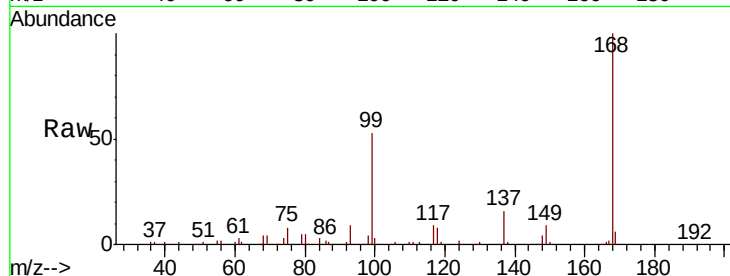
Tot Ion:117 Resp: 46822

Ion Ratio Lower Upper

117 100

119 6.2 76.3 114.5#

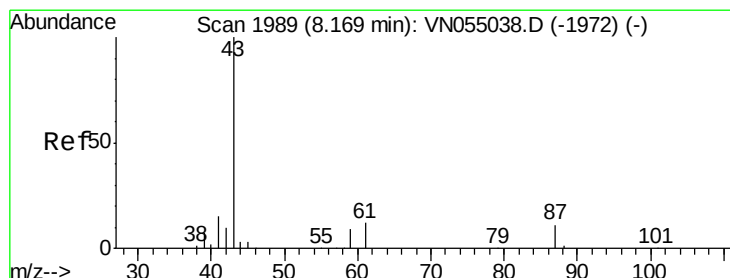
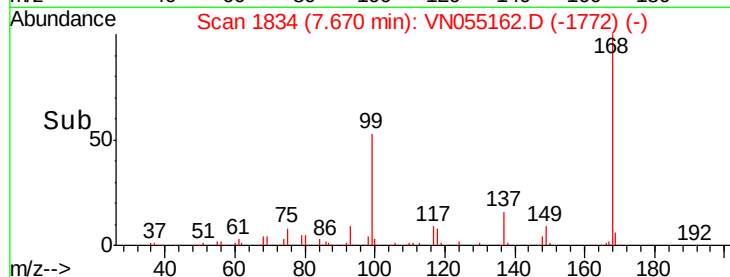
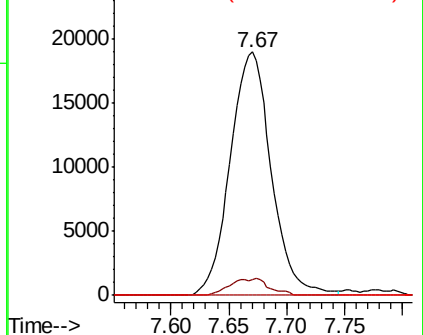
121 0.0 23.9 35.9#



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



#43

Isopropyl Acetate

Concen: 2.246 ug/l

RT: 8.17 min Scan# 1991

Delta R.T. 0.01 min

Lab File: VN055162.D

Acq: 20 Apr 2019 1:28

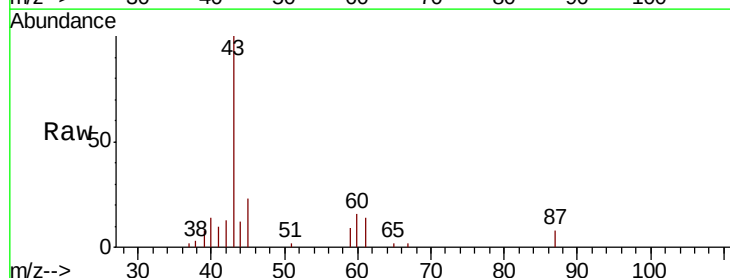
Tgt Ion: 43 Resp: 22159

Ion Ratio Lower Upper

43 100

61 14.8 14.3 21.5

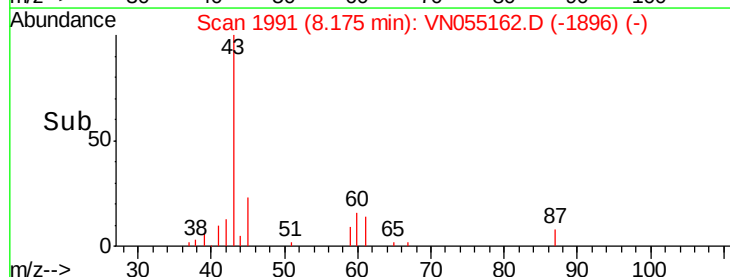
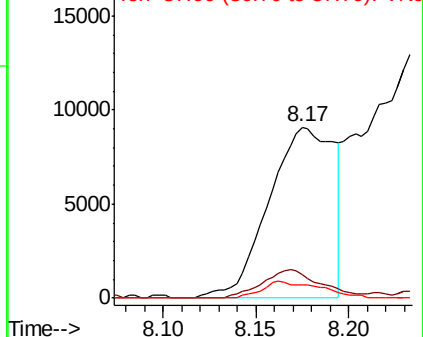
87 8.9 8.6 13.0

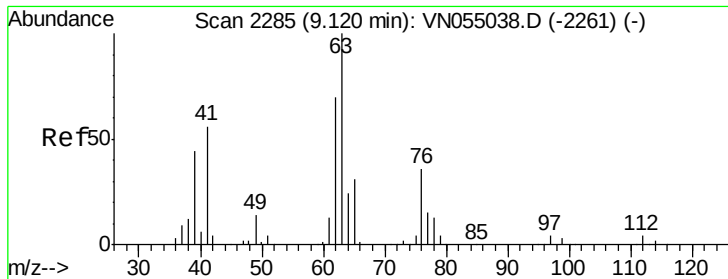


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.301 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN055162.D

Acq: 20 Apr 2019 1:28

Instrument :

MSVOA_N

ClientSampleId :

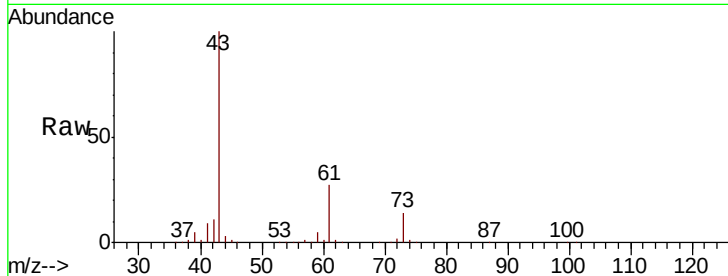
SU-02-041819-B

Tot Ion: 63 Resp: 1989

Ion Ratio Lower Upper

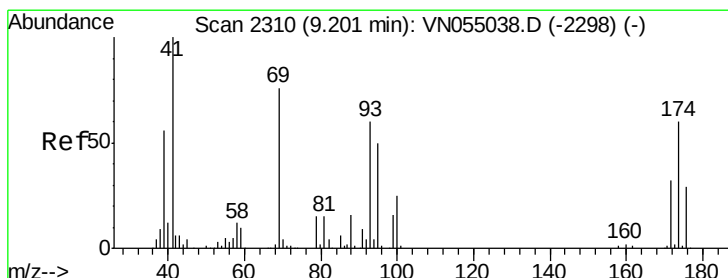
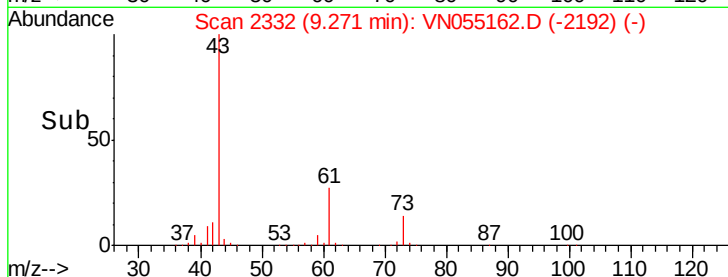
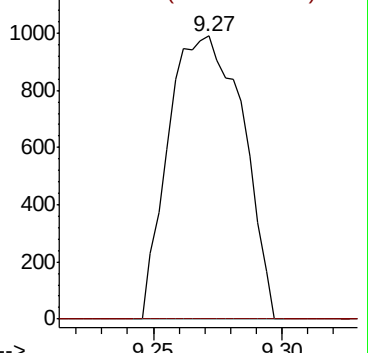
63 100

65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO



#48

Methyl methacrylate

Concen: 1.694 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN055162.D

Acq: 20 Apr 2019 1:28

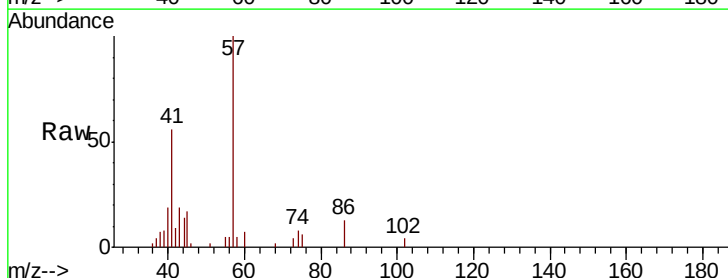
Tgt Ion: 41 Resp: 8283

Ion Ratio Lower Upper

41 100

69 0.0 60.5 90.7#

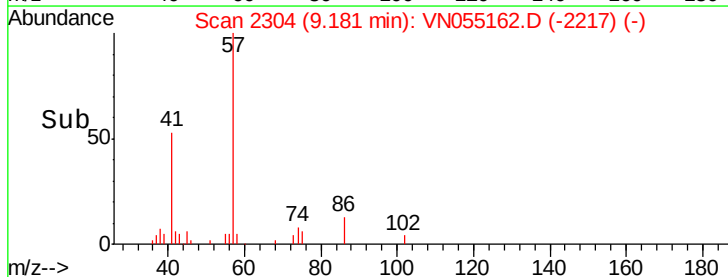
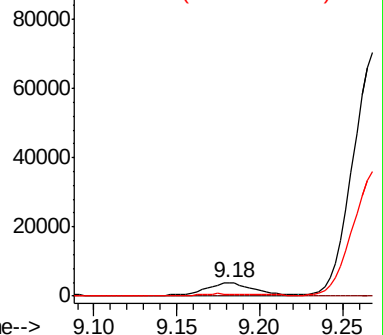
39 0.0 43.9 65.9#

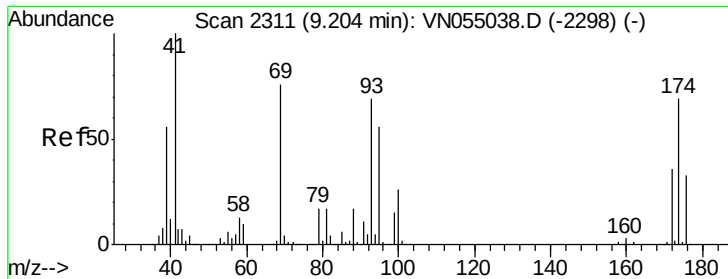


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#49

1,4-Dioxane

Concen: 1.353 ug/l

RT: 9.28 min Scan# 2335

Delta R.T. 0.08 min

Lab File: VN055162.D

Acq: 20 Apr 2019 1:28

Instrument :

MSVOA_N

ClientSampleId :

SU-02-041819-B

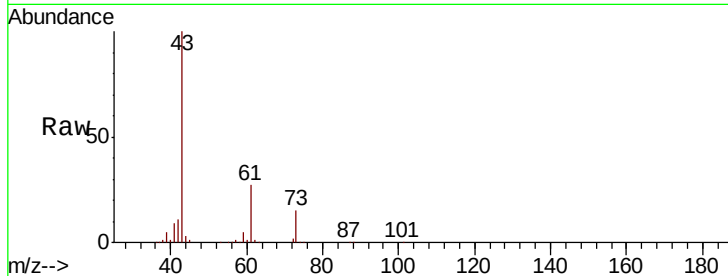
Tot Ion: 88 Resp: 62

Ion Ratio Lower Upper

88 100

43 2352748.4 31.8 47.8#

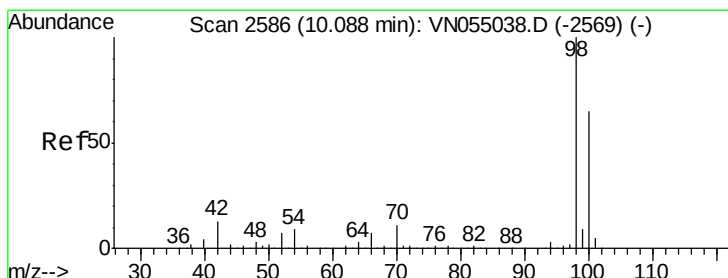
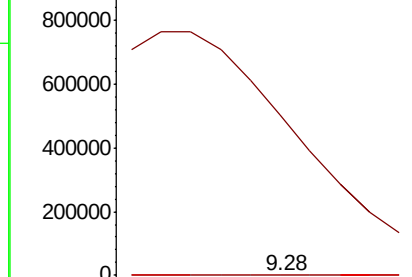
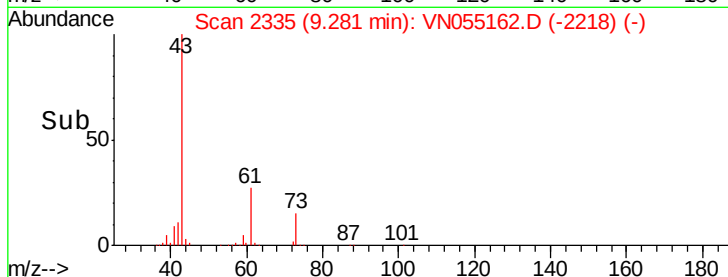
58 10321.0 61.6 92.4#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 48.744 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055162.D

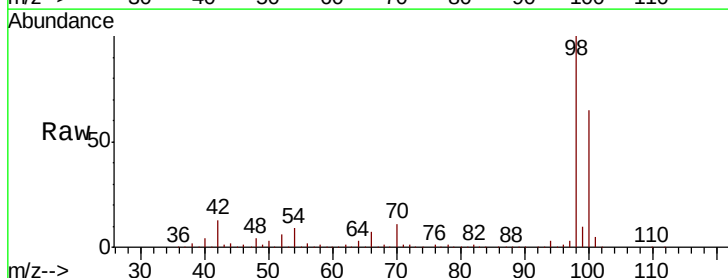
Acq: 20 Apr 2019 1:28

Tgt Ion: 98 Resp: 972600

Ion Ratio Lower Upper

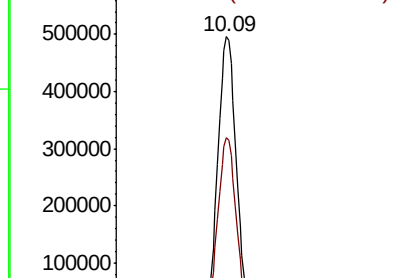
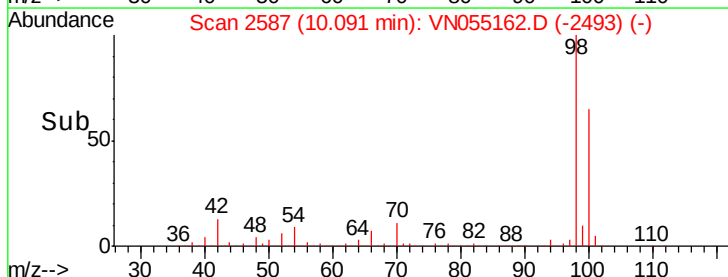
98 100

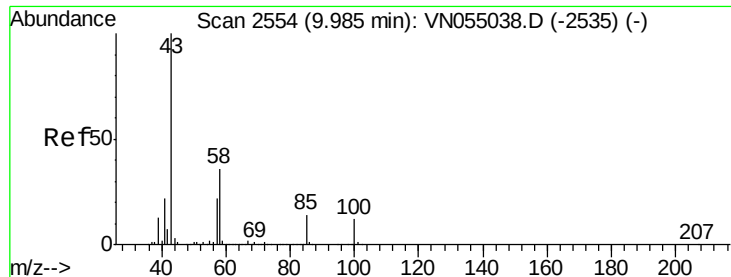
100 64.9 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

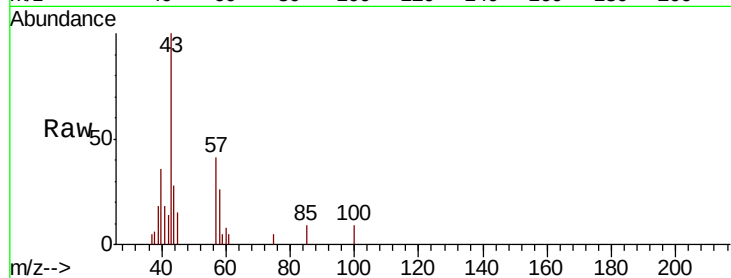




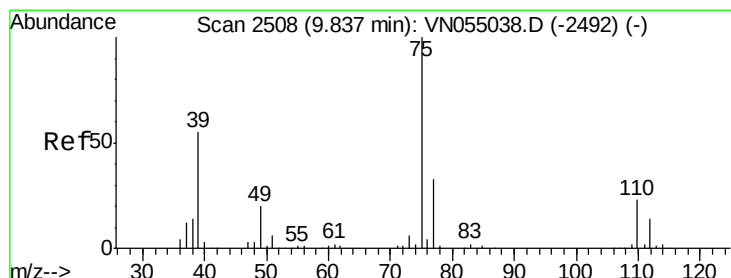
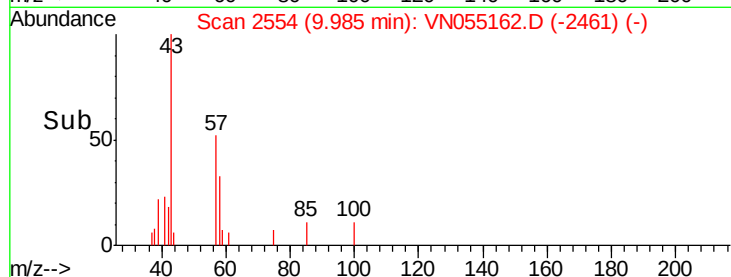
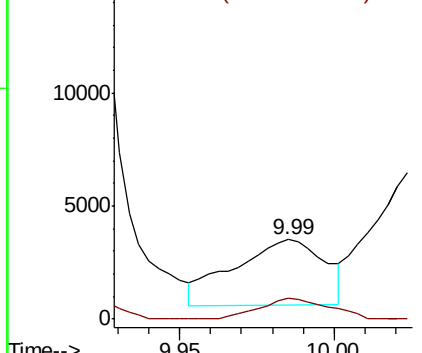
#51
 4-Methyl-2-Pentanone
 Concen: 1.040 ug/l
 RT: 9.99 min Scan# 2554
 Delta R.T. -0.00 min
 Lab File: VN055162.D
 Acq: 20 Apr 2019 1:28

Instrument :
 MSVOA_N
 ClientSampleID :
 SU-02-041819-B

Tot Ion: 43 Resp: 5927
 Ion Ratio Lower Upper
 43 100
 58 24.2 29.0 43.4#

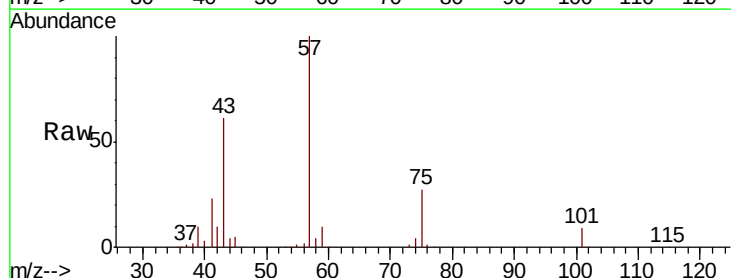


Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

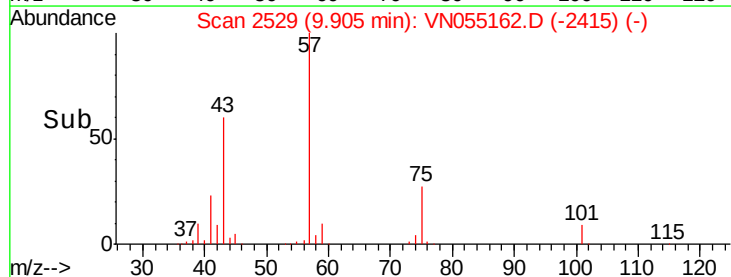
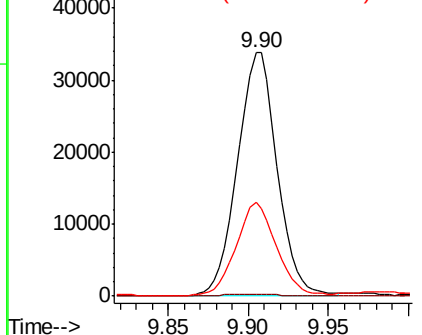


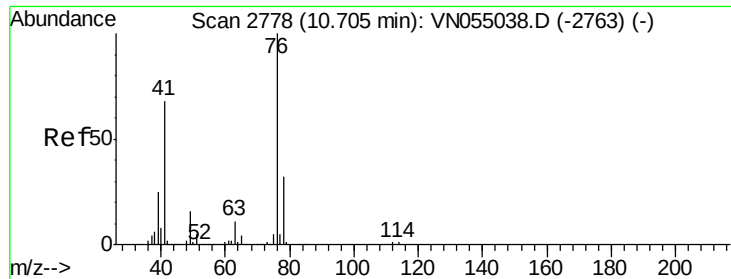
#54
 cis-1,3-Dichloropropene
 Concen: 6.804 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN055162.D
 Acq: 20 Apr 2019 1:28

Tgt Ion: 75 Resp: 57245
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.8 38.6#
 39 38.7 43.8 65.8#



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

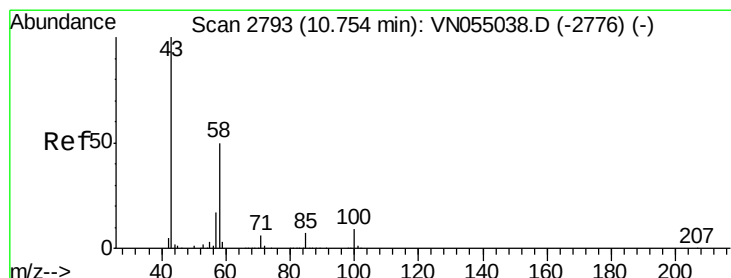
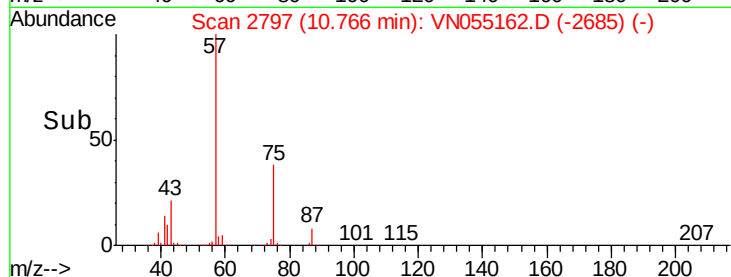
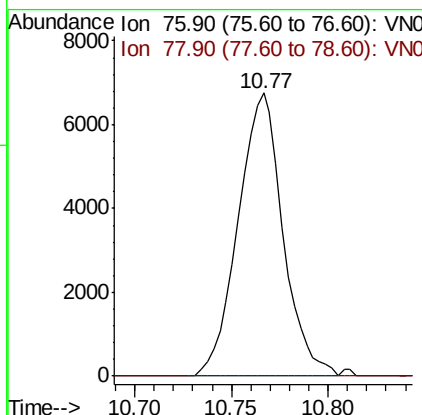
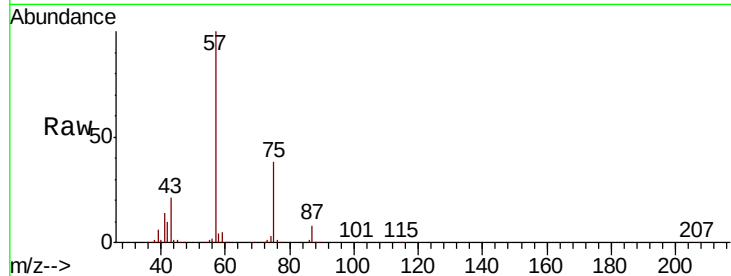




#57
 1,3-Dichloropropane
 Concen: 1.222 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN055162.D
 Acq: 20 Apr 2019 1:28

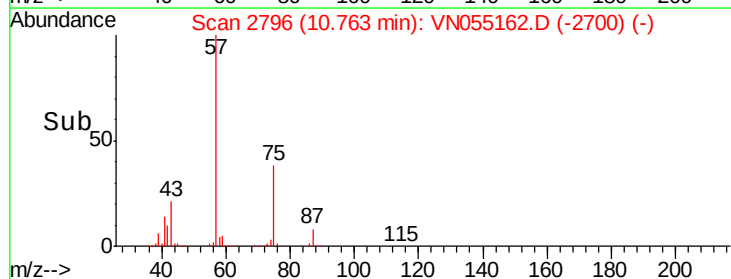
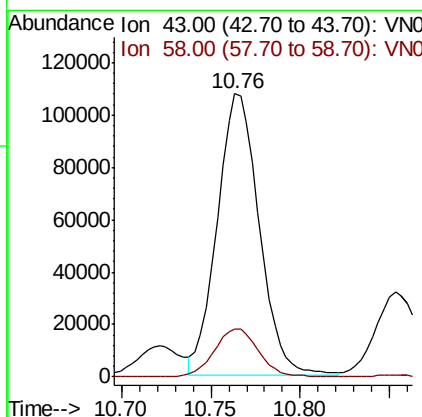
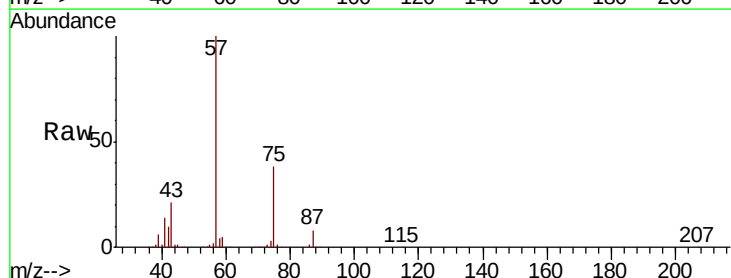
Instrument :
 MSVOA_N
 ClientSampleId :
 SU-02-041819-B

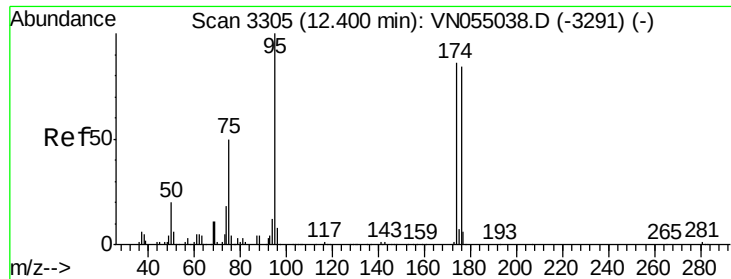
Tot Ion: 76 Resp: 10879
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 49.072 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN055162.D
 Acq: 20 Apr 2019 1:28

Tgt Ion: 43 Resp: 175654
 Ion Ratio Lower Upper
 43 100
 58 18.1 25.1 75.2#

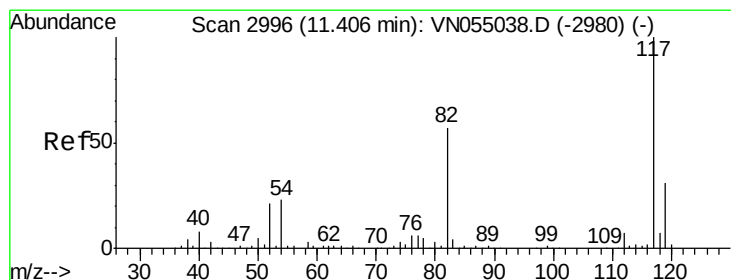
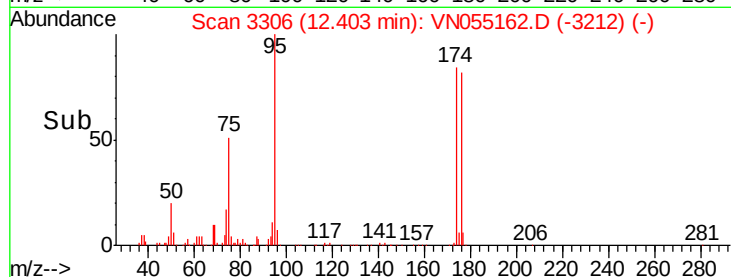
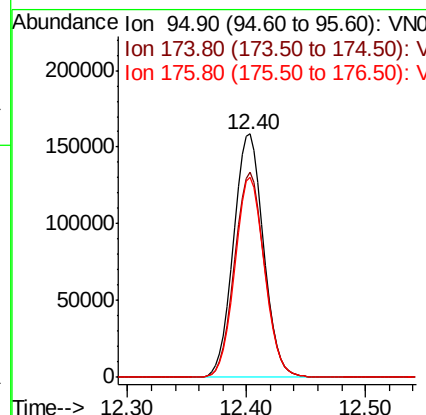
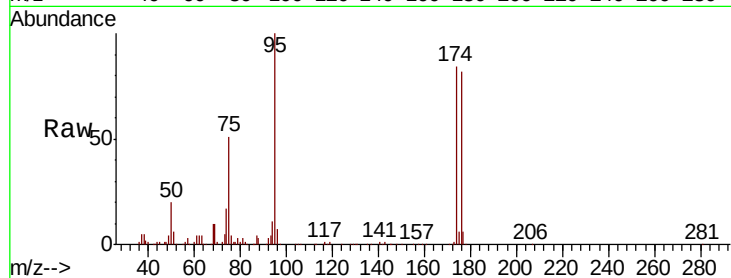




#62
4-Bromofluorobenzene
Concen: 42.736 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN055162.D
Acq: 20 Apr 2019 1:28

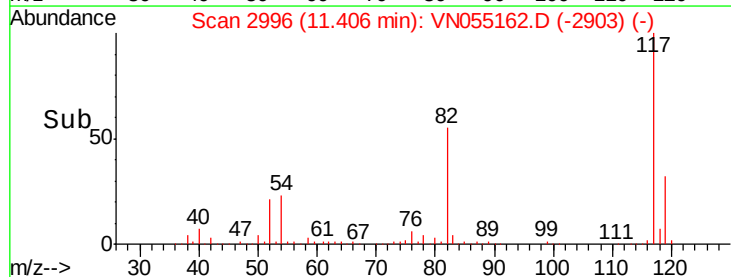
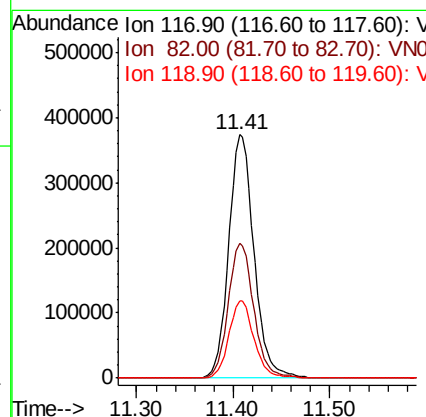
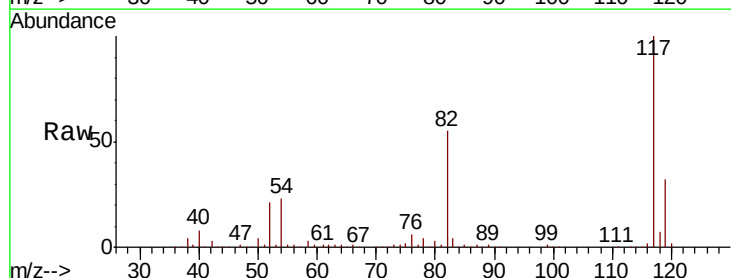
Instrument :
MSVOA_N
ClientSampleId :
SU-02-041819-B

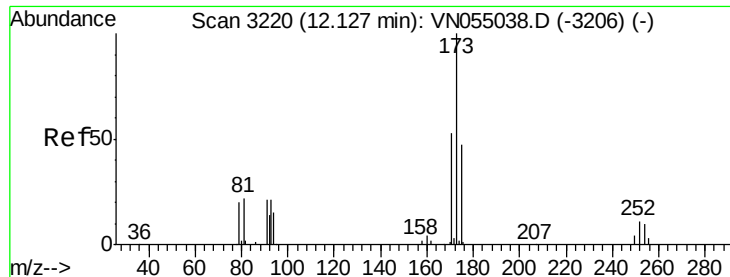
Tot Ion: 95 Resp: 277219
Ion Ratio Lower Upper
95 100
174 84.1 0.0 174.4
176 81.3 0.0 166.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055162.D
Acq: 20 Apr 2019 1:28

Tgt Ion: 117 Resp: 676596
Ion Ratio Lower Upper
117 100
82 55.4 44.6 66.8
119 31.6 25.5 38.3





#71

Bromoform

Concen: 0.872 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN055162.D

Acq: 20 Apr 2019 1:28

Instrument :

MSVOA_N

ClientSampleId :

SU-02-041819-B

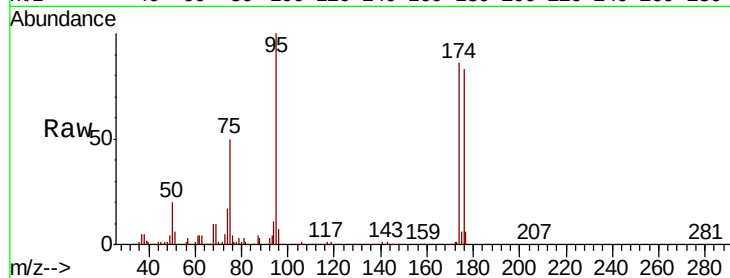
Tot Ion:173 Resp: 2503

Ion Ratio Lower Upper

173 100

175 602.4 24.3 73.0#

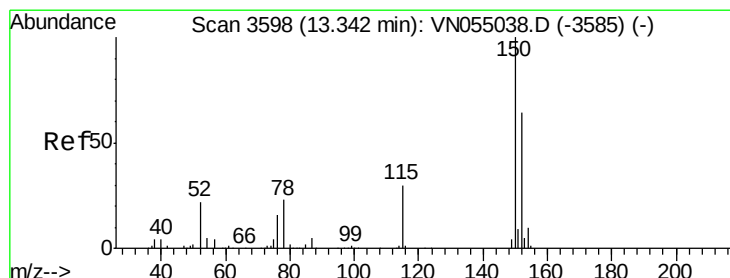
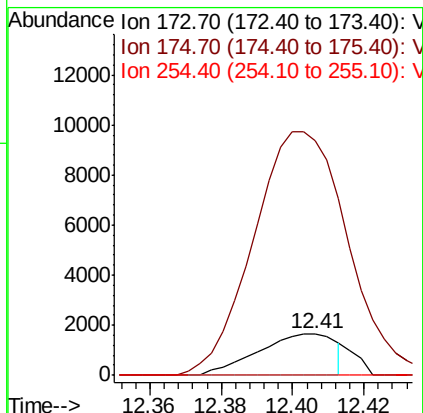
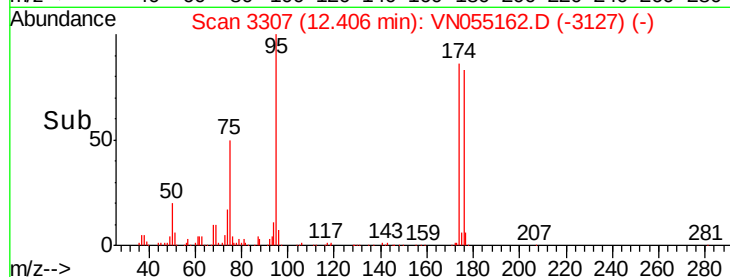
254 0.0 0.1 0.1#



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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN055162.D

Acq: 20 Apr 2019 1:28

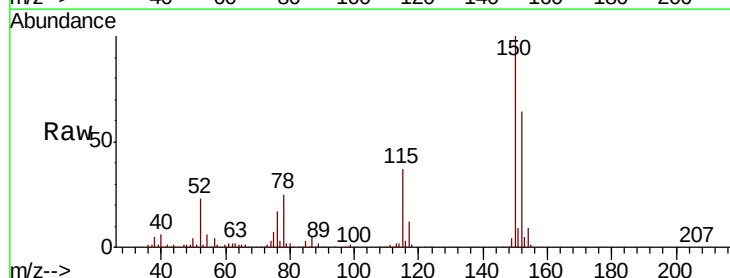
Tgt Ion:152 Resp: 202349

Ion Ratio Lower Upper

152 100

115 57.0 28.5 85.6

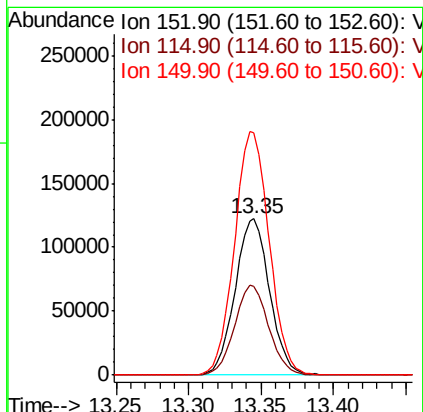
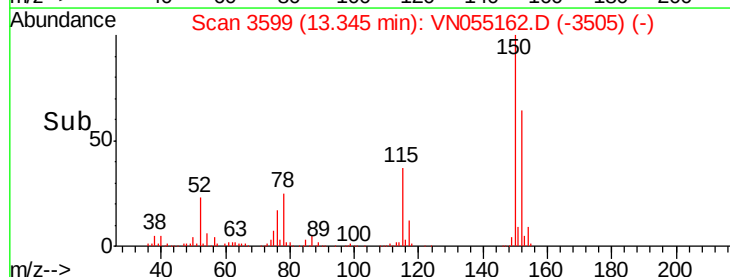
150 156.7 0.0 347.2

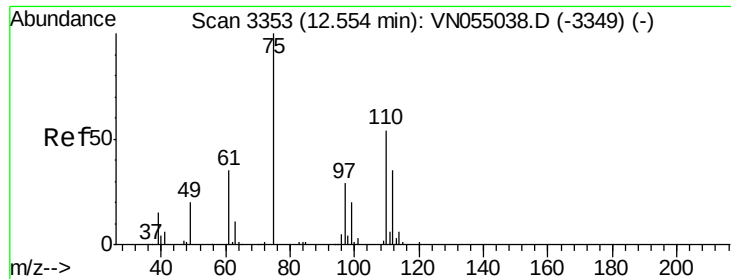


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 38.964 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055162.D

Acq: 20 Apr 2019 1:28

Instrument :

MSVOA_N

ClientSampleId :

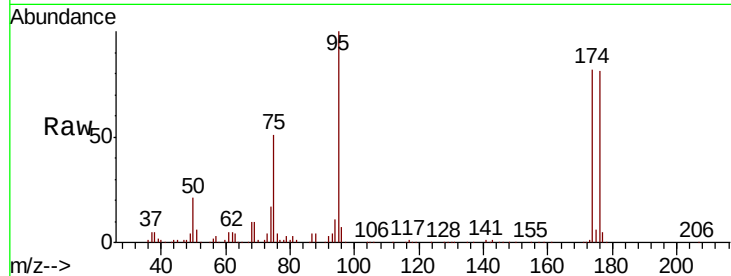
SU-02-041819-B

Tot Ion: 75 Resp: 141780

Ion Ratio Lower Upper

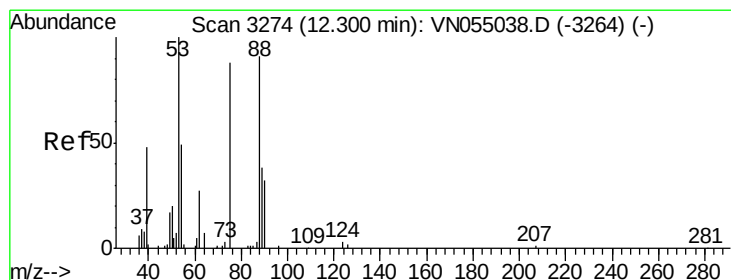
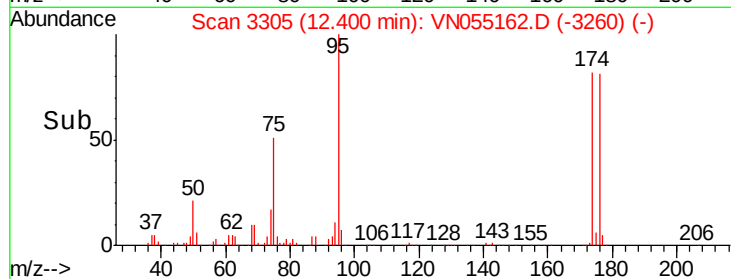
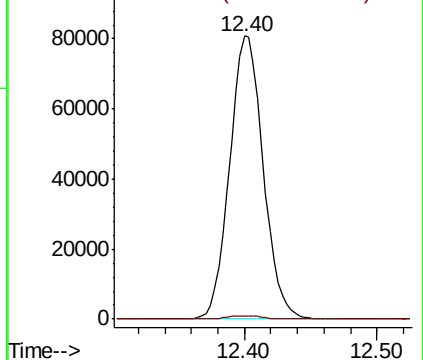
75 100

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



#81

trans-1,4-Dichloro-2-butene

Concen: 155.812 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055162.D

Acq: 20 Apr 2019 1:28

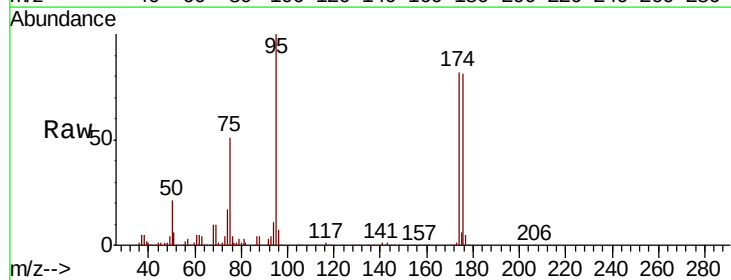
Tgt Ion: 75 Resp: 141780

Ion Ratio Lower Upper

75 100

53 0.0 96.3 144.5#

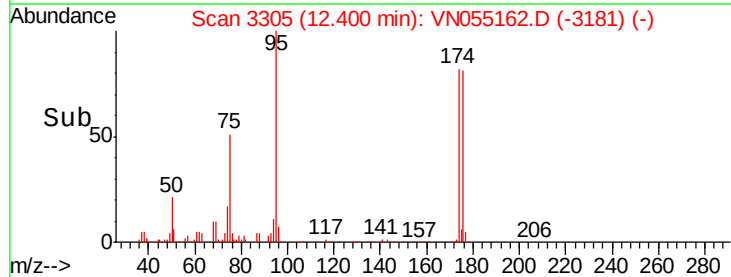
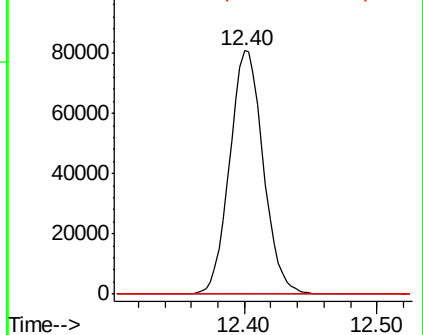
89 0.0 38.6 57.8#

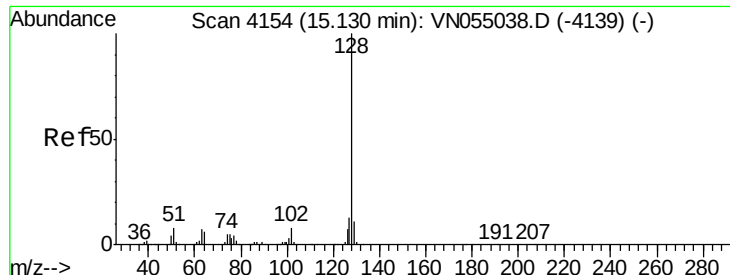


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#95

Naphthalene

Concen: 3.281 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN055162.D

Acq: 20 Apr 2019 1:28

Instrument :

MSVOA_N

ClientSampleId :

SU-02-041819-B

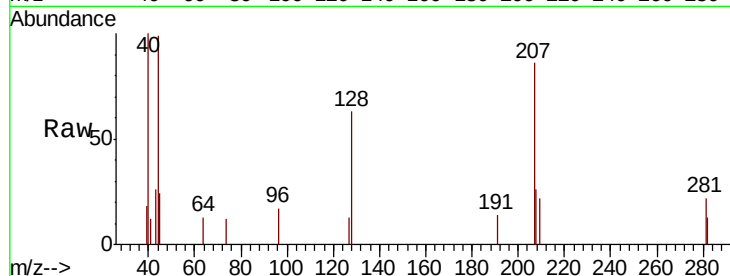
Tot Ion:128 Resp: 1556

Ion Ratio Lower Upper

128 100

127 3.9 10.1 15.1#

129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

