

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041719\
 Data File : VN055095.D
 Acq On : 17 Apr 2019 10:26
 Operator : JC/SP
 Sample : PB118954TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

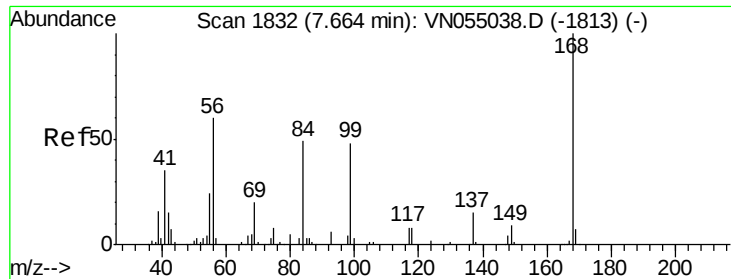
Quant Time: Apr 18 03:00:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041519W.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 15 12:28:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	542317	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	853569	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	713803	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	217560	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	336219	46.64	ug/l	0.00
Spiked Amount			Recovery	=	93.28%	
35) Dibromofluoromethane	7.59	113	276865	48.53	ug/l	0.00
Spiked Amount			Recovery	=	97.06%	
50) Toluene-d8	10.09	98	1024444	50.18	ug/l	0.00
Spiked Amount			Recovery	=	100.36%	
62) 4-Bromofluorobenzene	12.40	95	286562	43.17	ug/l	0.00
Spiked Amount			Recovery	=	86.34%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.76	59	162	0.410	ug/l #	72
13) Acrolein	3.62	56	162	0.332	ug/l #	12
16) Acetone	3.82	43	4619	2.361	ug/l	95
18) Methyl Acetate	4.33	43	3920	0.260	ug/l #	77
20) Methylene Chloride	4.55	84	8973	1.305	ug/l	97
29) Tetrahydrofuran	7.23	42	1020	0.533	ug/l #	44
31) Cyclohexane	7.67	56	11486	Below Cal	#	10
36) 1,1-Dichloropropene	7.67	75	39120	4.862	ug/l #	50
38) Carbon Tetrachloride	7.66	117	50849	6.642	ug/l #	15
43) Isopropyl Acetate	8.17	43	14035	1.390	ug/l	99
45) 1,2-Dichloropropane	9.27	63	1372	0.203	ug/l #	44
48) Methyl methacrylate	9.18	41	6499	1.299	ug/l #	17
51) 4-Methyl-2-Pentanone	10.03	43	8122	1.393	ug/l #	39
54) cis-1,3-Dichloropropene	9.90	75	51668	6.002	ug/l #	66
57) 1,3-Dichloropropane	10.76	76	9730	1.068	ug/l #	43
59) 2-Hexanone	10.76	43	156726	42.790	ug/l #	53
71) Bromoform	12.40	173	2796	0.923	ug/l #	1
74) N-amyl acetate	11.88	43	16826	3.096	ug/l #	53
76) 1,2,3-Trichloropropane	12.40	75	144982	37.058	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	10513	0.675	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	144982	148.191	ug/l #	2
93) 1,2,4-Trichlorobenzene	14.91	180	278	2.756	ug/l #	87
95) Naphthalene	15.14	128	658	3.159	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055095.D

Acq: 17 Apr 2019 10:26

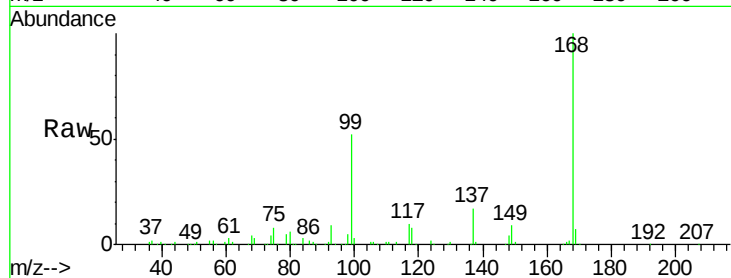
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 542317

Ion Ratio Lower Upper

168 100

99 52.4 41.9 62.9



Abundance Ion 167.90 (167.60 to 168.60): VN055038.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN055038.D (-1813) (-)

7.66

250000

200000

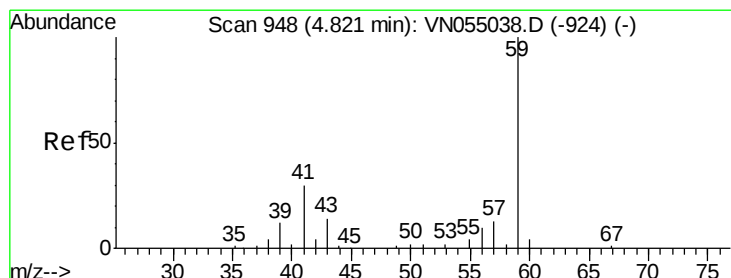
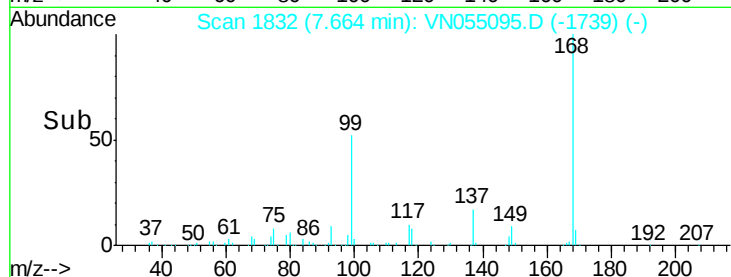
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 0.410 ug/l

RT: 4.76 min Scan# 928

Delta R.T. -0.06 min

Lab File: VN055095.D

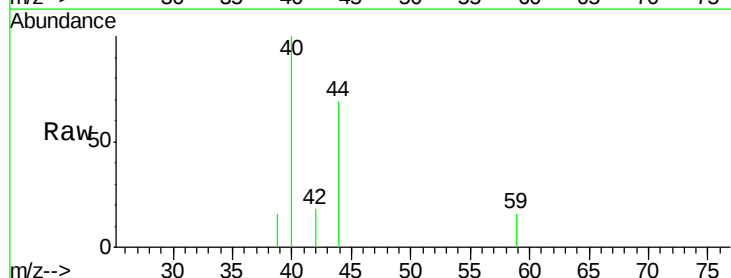
Acq: 17 Apr 2019 10:26

Tgt Ion: 59 Resp: 162

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN055038.D (-924) (-)

Ion 57.00 (56.70 to 57.70): VN055038.D (-924) (-)

4.76

200

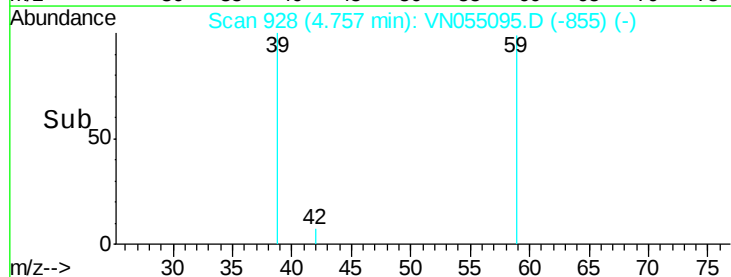
150

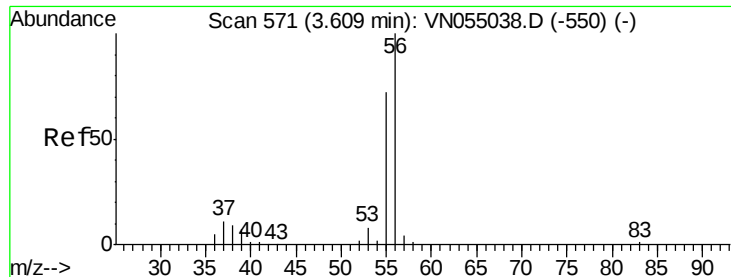
100

50

0

Time--> 4.74 4.75 4.76 4.77 4.78





#13

Acrolein

Concen: 0.332 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN055095.D

Acq: 17 Apr 2019 10:26

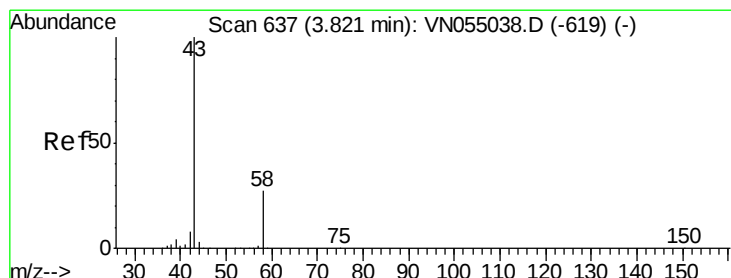
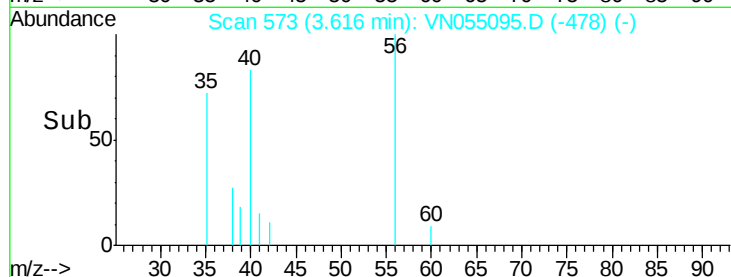
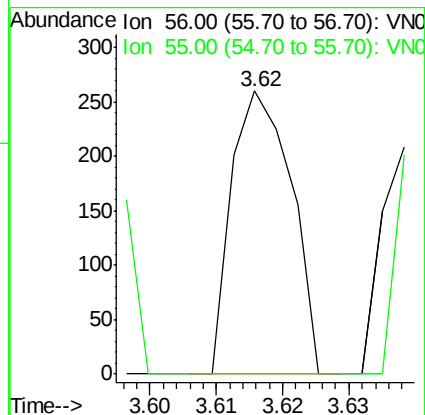
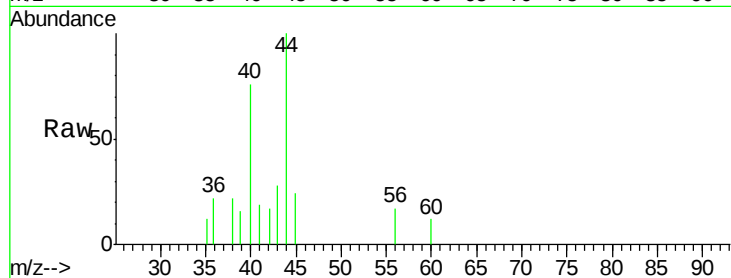
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 162

Ion Ratio Lower Upper

56 100

55 0.0 59.5 89.3#



#16

Acetone

Concen: 2.361 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN055095.D

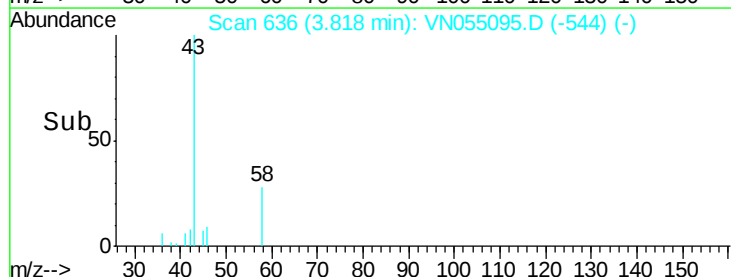
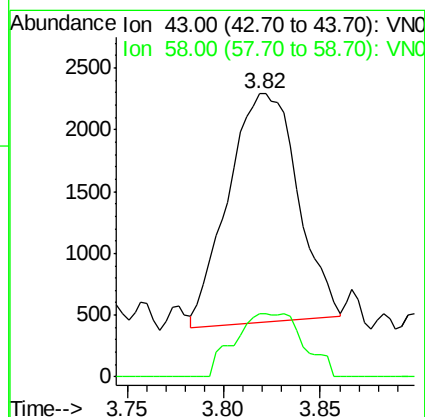
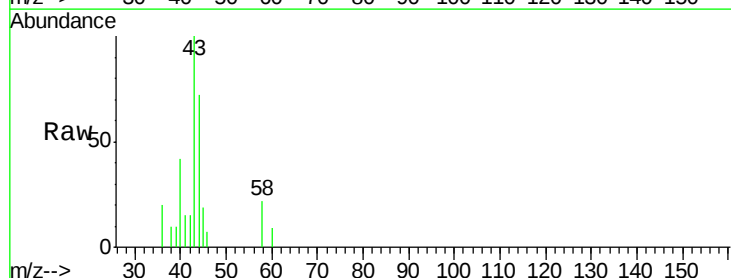
Acq: 17 Apr 2019 10:26

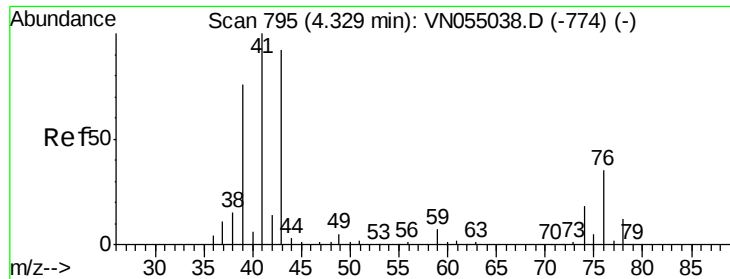
Tgt Ion: 43 Resp: 4619

Ion Ratio Lower Upper

43 100

58 28.5 20.9 31.3

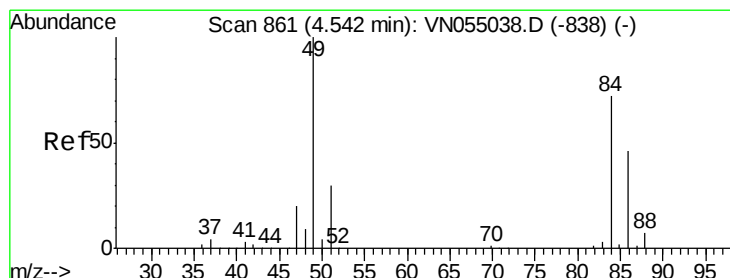
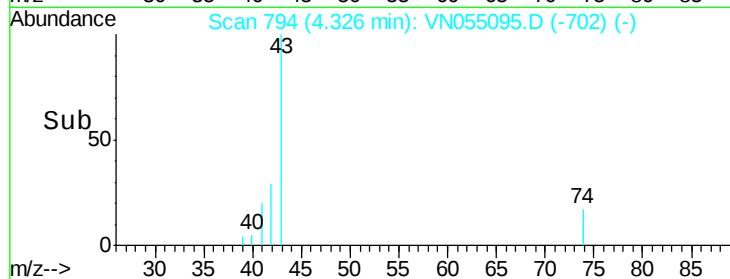
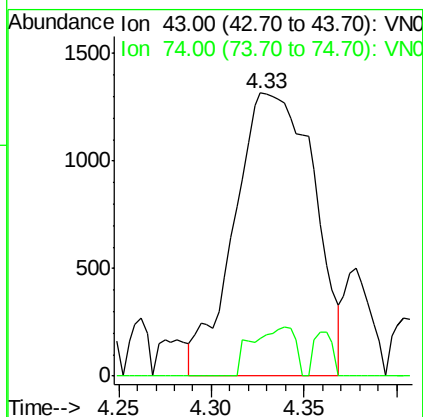
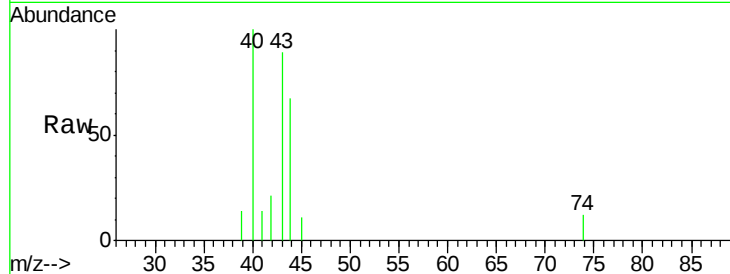




#18
Methyl Acetate
Concen: 0.260 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN055095.D
Acq: 17 Apr 2019 10:26

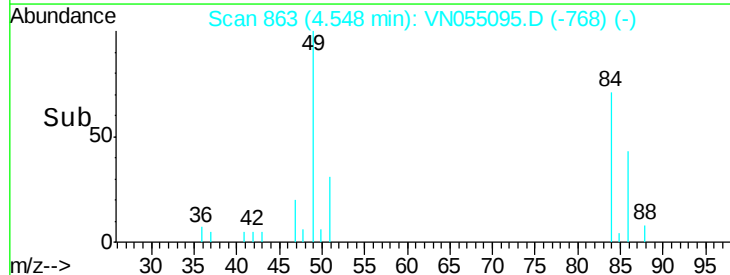
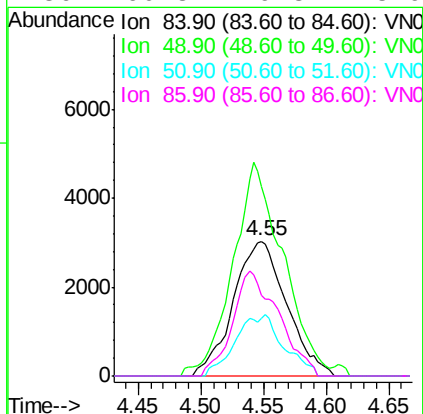
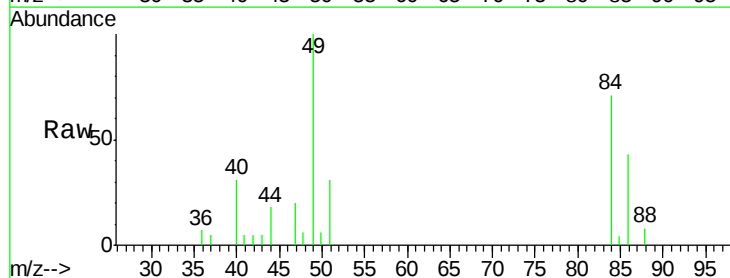
Instrument :
MSVOA_N
ClientSampled :

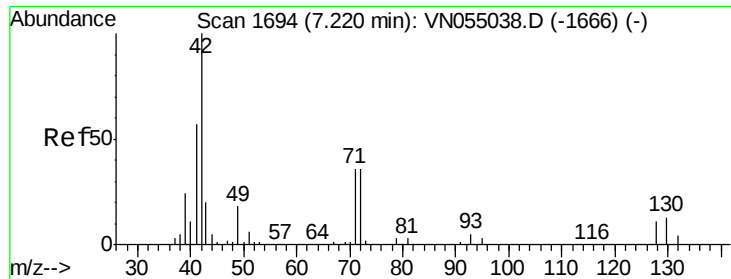
Tot Ion: 43 Resp: 3920
Ion Ratio Lower Upper
43 100
74 9.4 16.1 24.1#



#20
Methylene Chloride
Concen: 1.305 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.01 min
Lab File: VN055095.D
Acq: 17 Apr 2019 10:26

Tgt Ion: 84 Resp: 8973
Ion Ratio Lower Upper
84 100
49 133.7 109.4 164.2
51 43.1 32.2 48.4
86 60.3 49.3 73.9

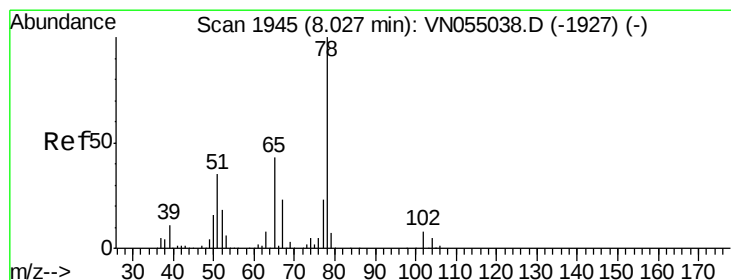
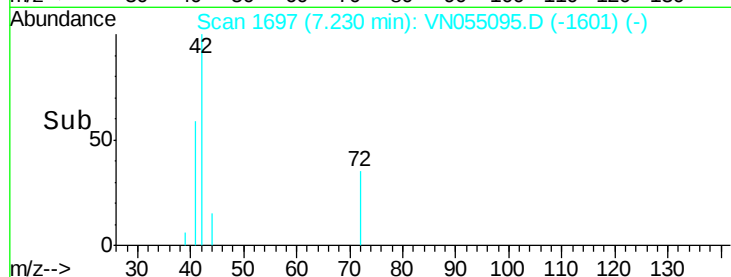
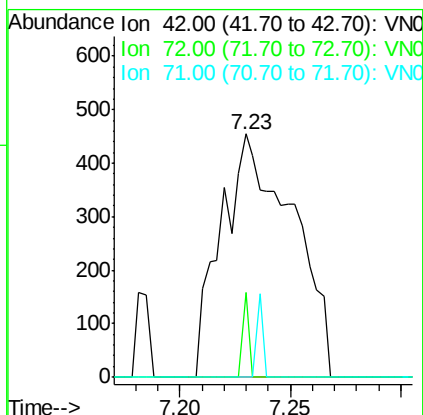
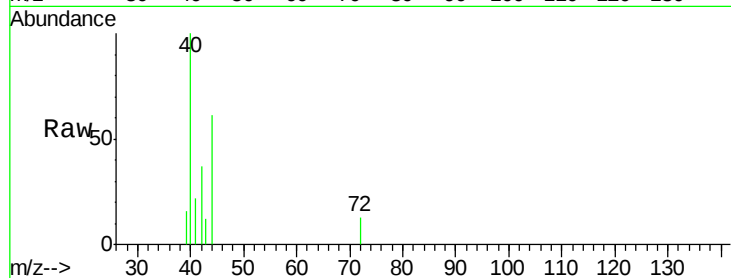




#29
Tetrahydrofuran
Concen: 0.533 ug/l
RT: 7.23 min Scan# 1697
Delta R.T. 0.01 min
Lab File: VN055095.D
Acq: 17 Apr 2019 10:26

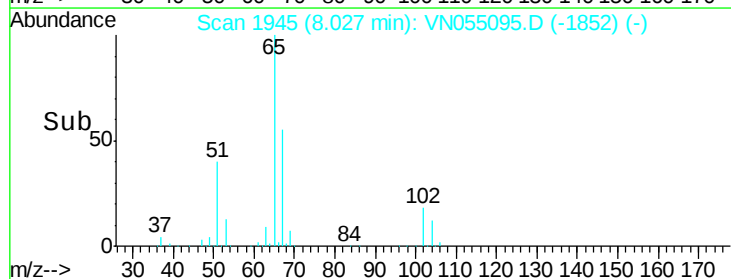
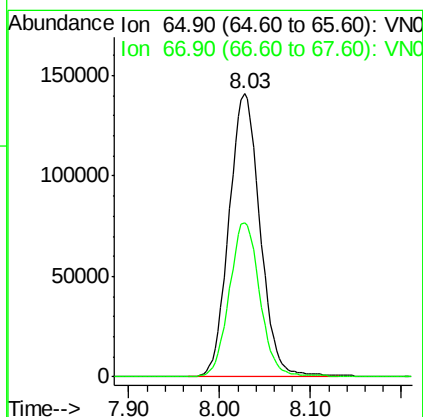
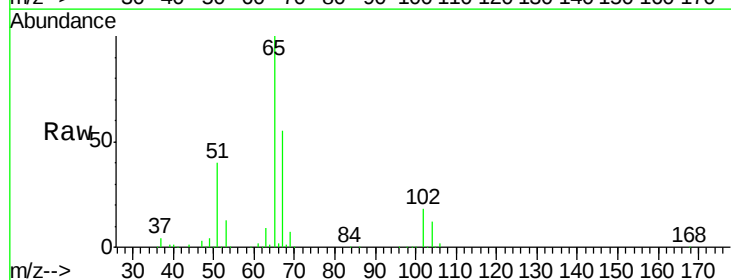
Instrument :
MSVOA_N
ClientSampled :

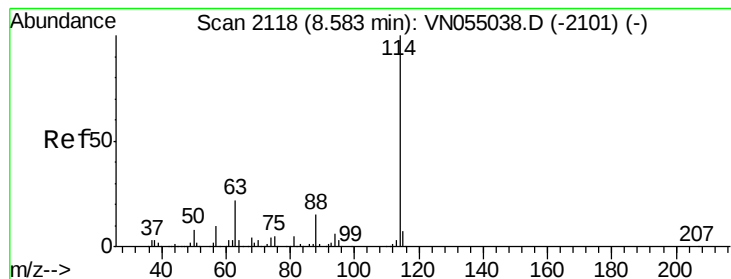
Tot Ion: 42 Resp: 1020
Ion Ratio Lower Upper
42 100
72 3.0 29.4 44.0#
71 2.9 27.8 41.6#



#33
1,2-Dichloroethane-d4
Concen: 46.640 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN055095.D
Acq: 17 Apr 2019 10:26

Tgt Ion: 65 Resp: 336219
Ion Ratio Lower Upper
65 100
67 53.3 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN055095.D

Acq: 17 Apr 2019 10:26

Instrument :

MSVOA_N

ClientSampled :

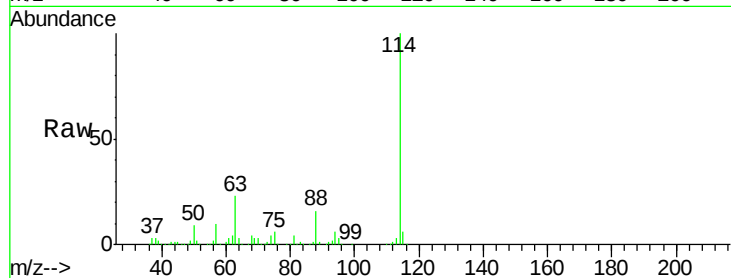
Tot Ion:114 Resp: 853569

Ion Ratio Lower Upper

114 100

63 22.7 0.0 45.2

88 16.0 0.0 31.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN

8.58

400000

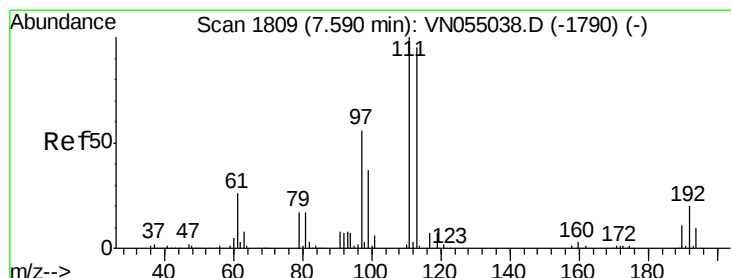
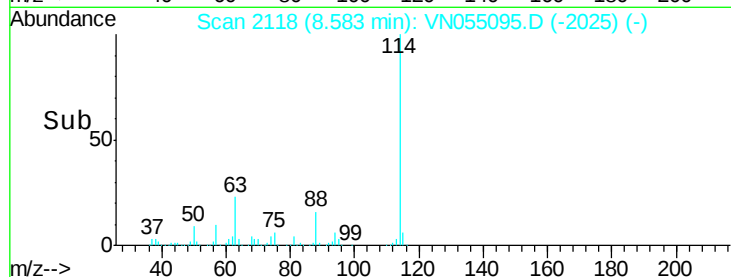
300000

200000

100000

0

Time--> 8.40 8.50 8.60 8.70 8.80



#35

Dibromofluoromethane

Concen: 48.535 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN055095.D

Acq: 17 Apr 2019 10:26

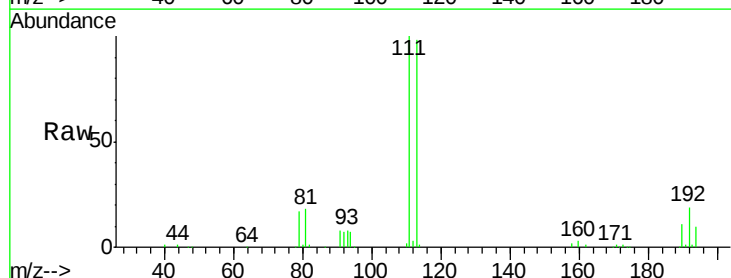
Tgt Ion:113 Resp: 276865

Ion Ratio Lower Upper

113 100

111 101.1 82.1 123.1

192 20.6 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

7.59

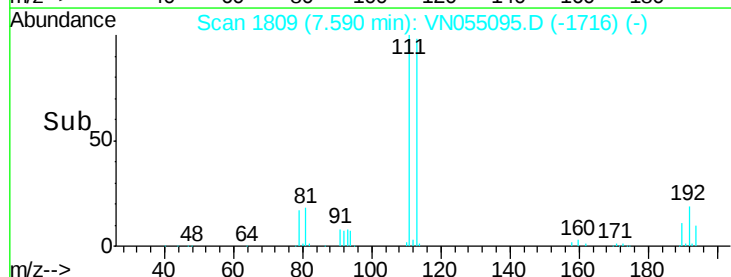
150000

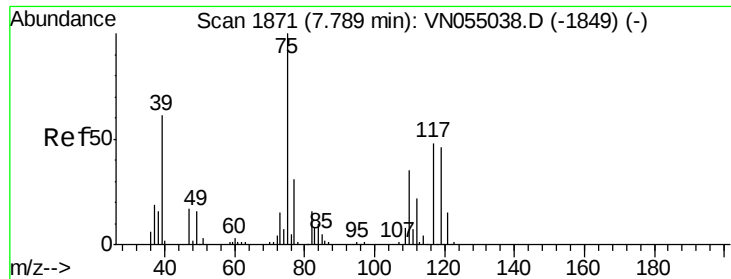
100000

50000

0

Time--> 7.50 7.60 7.70





#36

1,1-Dichloropropene

Concen: 4.862 ug/l

RT: 7.67 min Scan# 1833

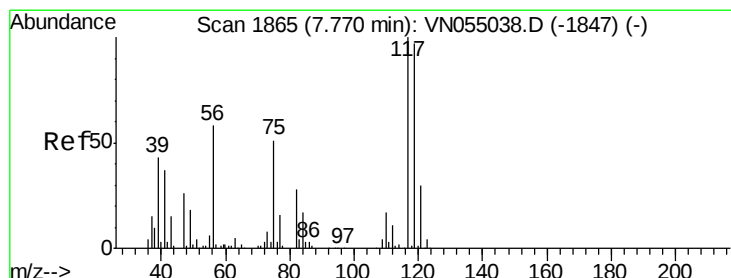
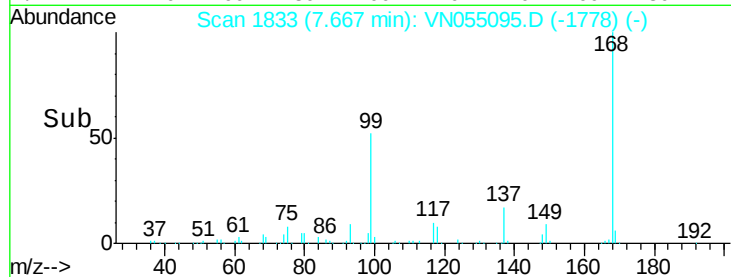
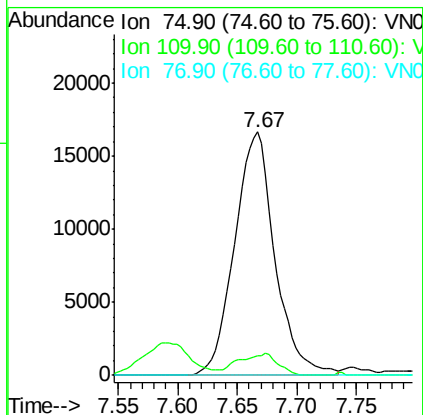
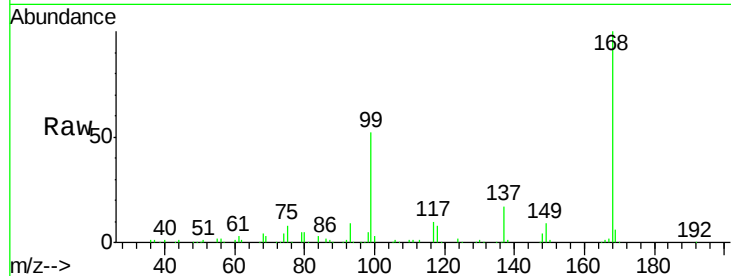
Delta R.T. -0.12 min

Lab File: VN055095.D

Acq: 17 Apr 2019 10:26

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 75 Resp: 39120
Ion Ratio Lower Upper
75 100
110 8.9 17.5 52.5#
77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 6.642 ug/l

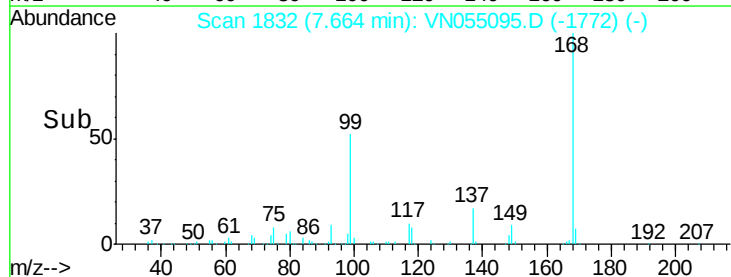
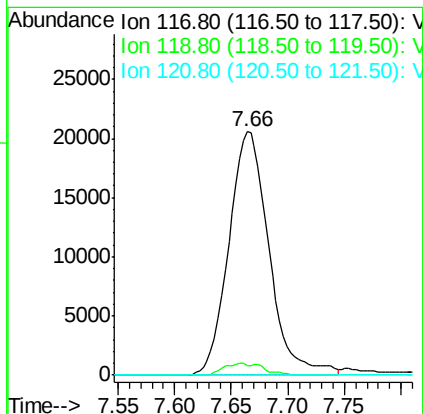
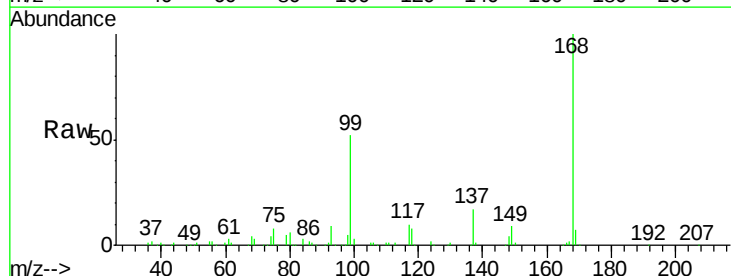
RT: 7.66 min Scan# 1832

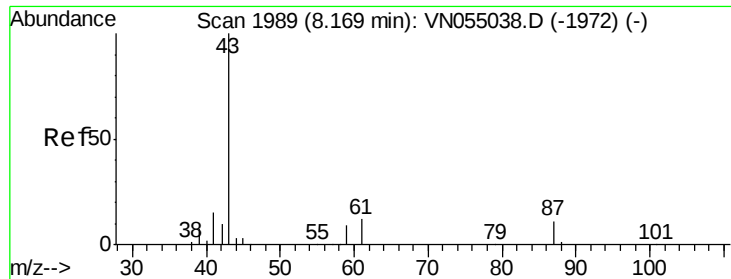
Delta R.T. -0.11 min

Lab File: VN055095.D

Acq: 17 Apr 2019 10:26

Tgt Ion: 117 Resp: 50849
Ion Ratio Lower Upper
117 100
119 4.1 76.3 114.5#
121 0.0 23.9 35.9#





#43

Isopropyl Acetate

Concen: 1.390 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN055095.D

Acq: 17 Apr 2019 10:26

Instrument :

MSVOA_N

ClientSampleId :

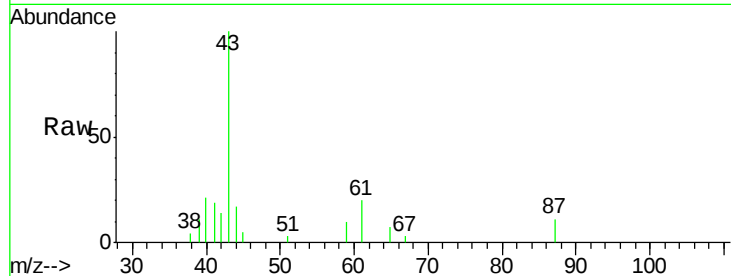
Tot Ion: 43 Resp: 14035

Ion Ratio Lower Upper

43 100

61 18.5 14.3 21.5

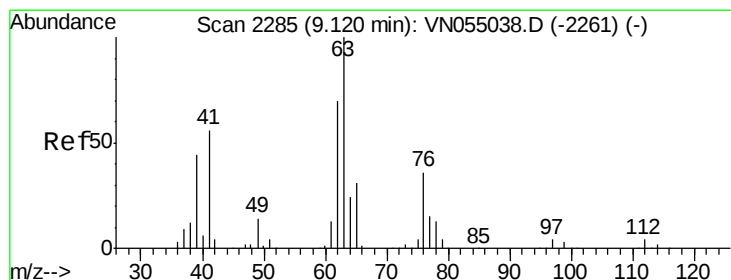
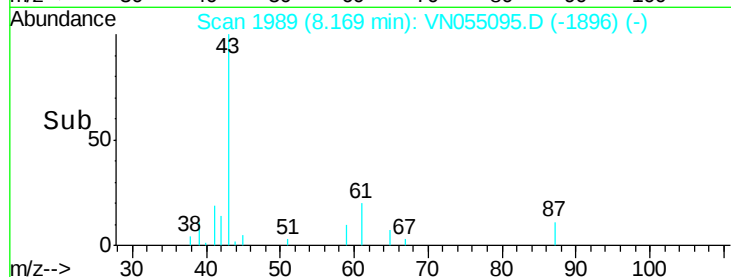
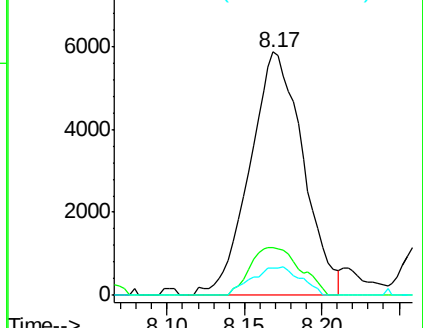
87 10.7 8.6 13.0



Abundance Ion 43.00 (42.70 to 43.70): VN055038.D (-1972) (-)

Ion 61.00 (60.70 to 61.70): VN055038.D (-1972) (-)

Ion 87.00 (86.70 to 87.70): VN055038.D (-1972) (-)



#45

1,2-Dichloropropane

Concen: 0.203 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN055095.D

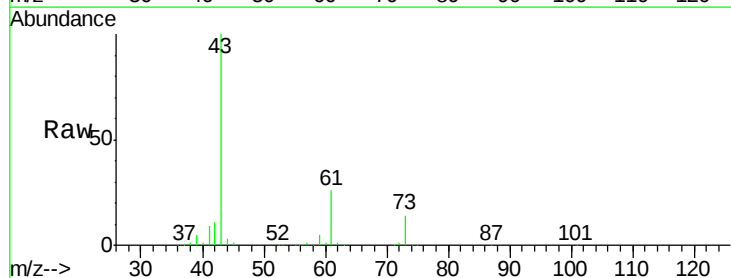
Acq: 17 Apr 2019 10:26

Tgt Ion: 63 Resp: 1372

Ion Ratio Lower Upper

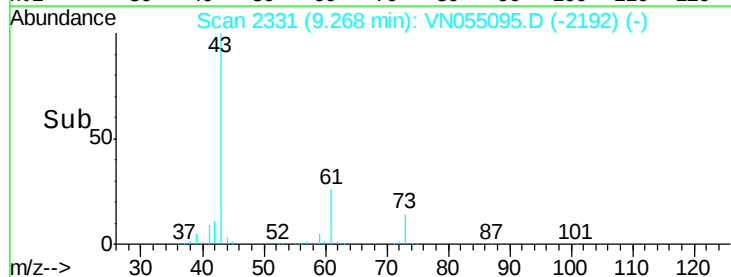
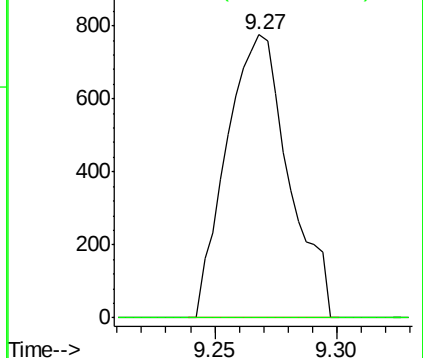
63 100

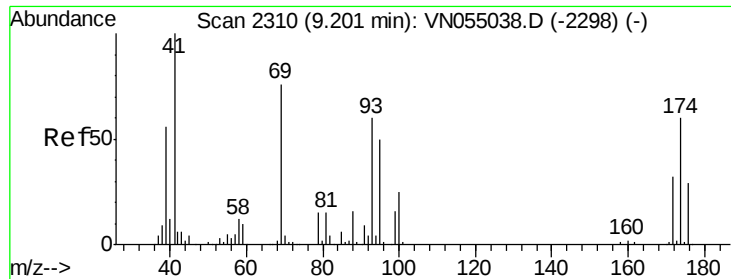
65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN055038.D (-2261) (-)

Ion 64.90 (64.60 to 65.60): VN055038.D (-2261) (-)

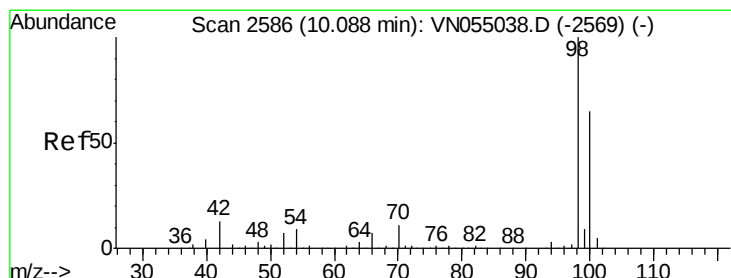
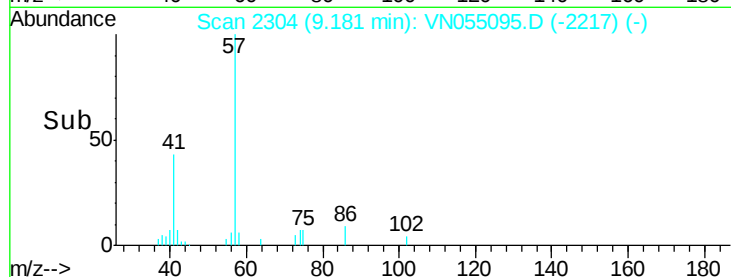
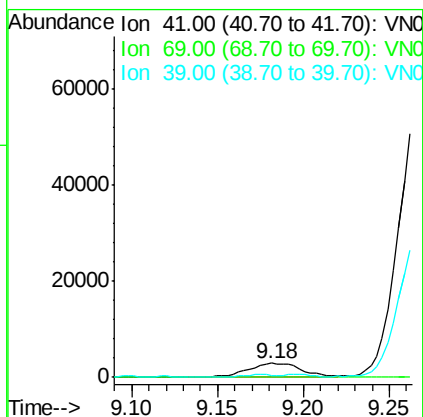
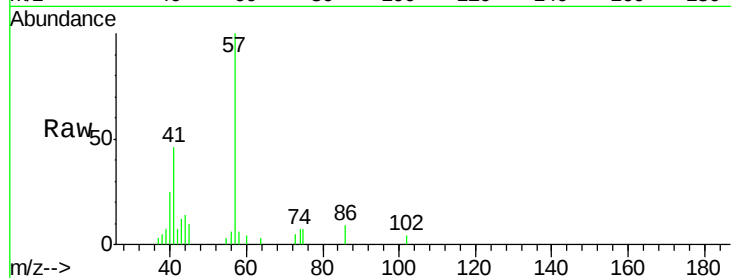




#48
Methvl methacrylate
Concen: 1.299 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN055095.D
Acq: 17 Apr 2019 10:26

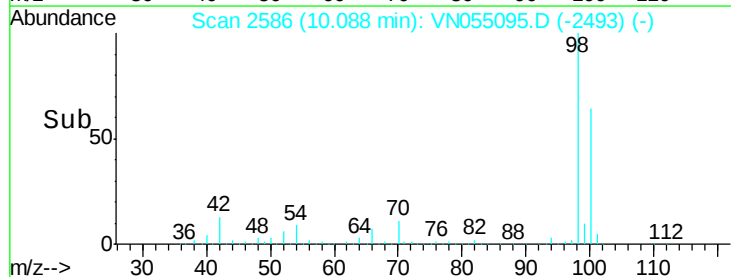
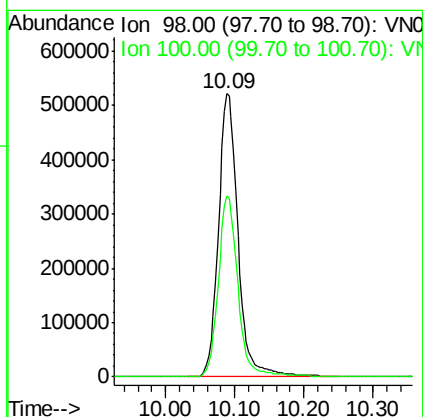
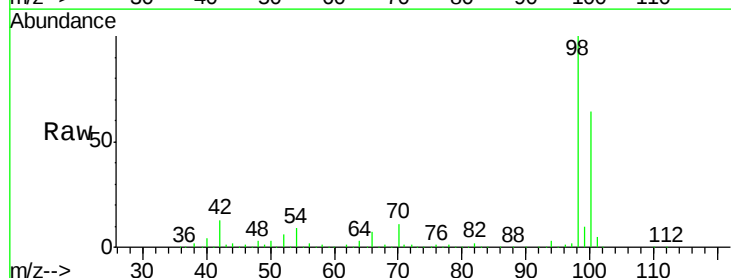
Instrument :
MSVOA_N
ClientSampleId :

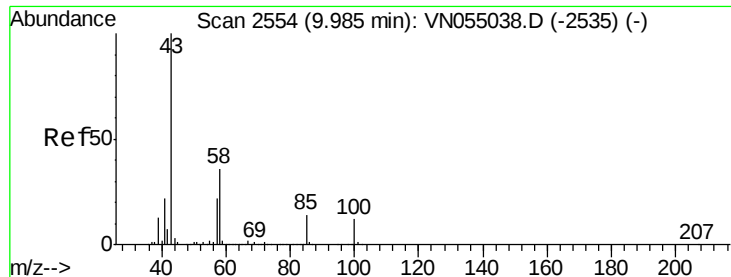
Tot Ion: 41 Resp: 6499
Ion Ratio Lower Upper
41 100
69 0.0 60.5 90.7#
39 0.0 43.9 65.9#



#50
Toluene-d8
Concen: 50.177 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN055095.D
Acq: 17 Apr 2019 10:26

Tgt Ion: 98 Resp: 1024444
Ion Ratio Lower Upper
98 100
100 64.0 51.1 76.7





#51

4-Methyl-2-Pentanone

Concen: 1.393 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN055095.D

Acq: 17 Apr 2019 10:26

Instrument :

MSVOA_N

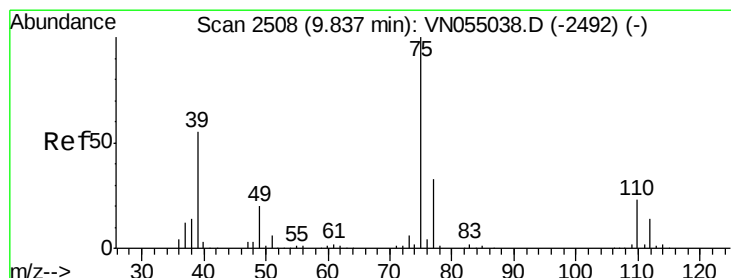
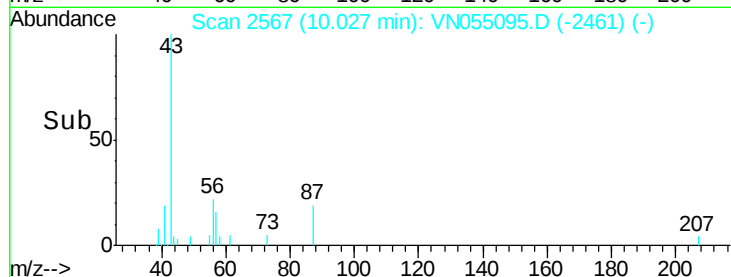
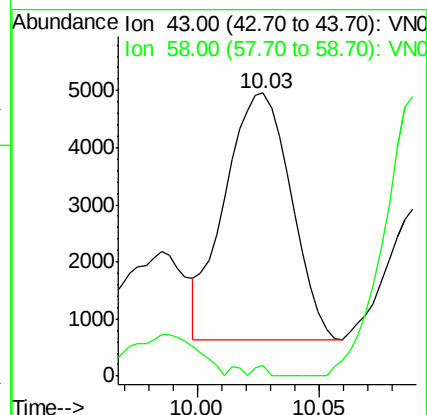
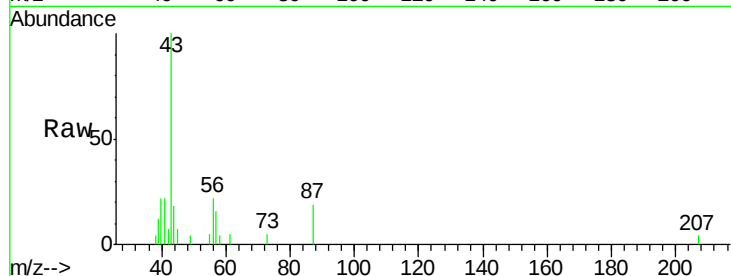
ClientSampled :

Tot Ion: 43 Resp: 8122

Ion Ratio Lower Upper

43 100

58 0.0 29.0 43.4#



#54

cis-1,3-Dichloropropene

Concen: 6.002 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN055095.D

Acq: 17 Apr 2019 10:26

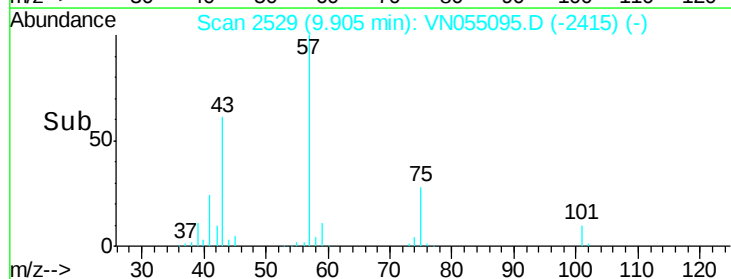
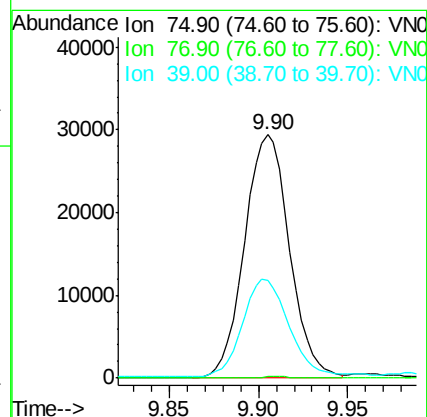
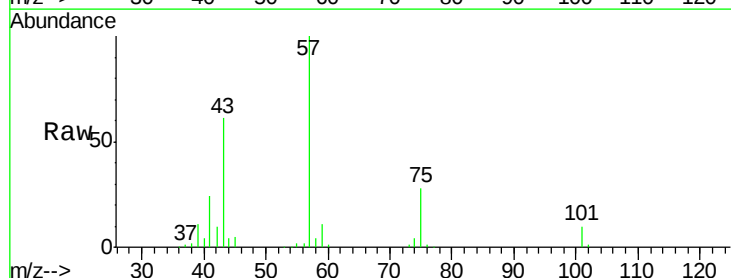
Tgt Ion: 75 Resp: 51668

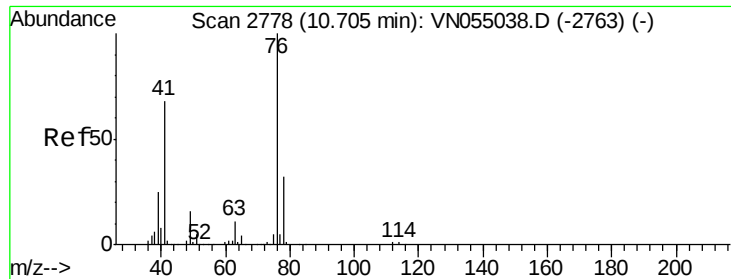
Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.6#

39 39.6 43.8 65.8#

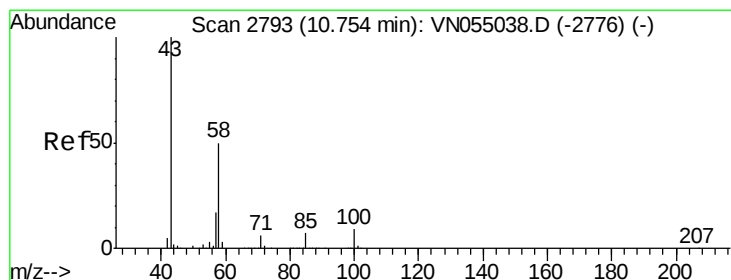
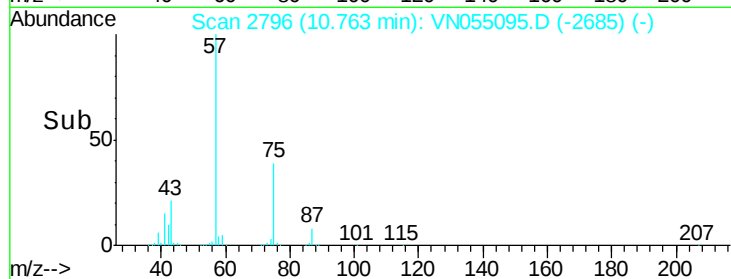
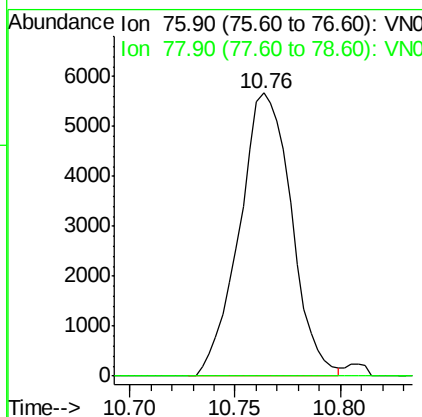
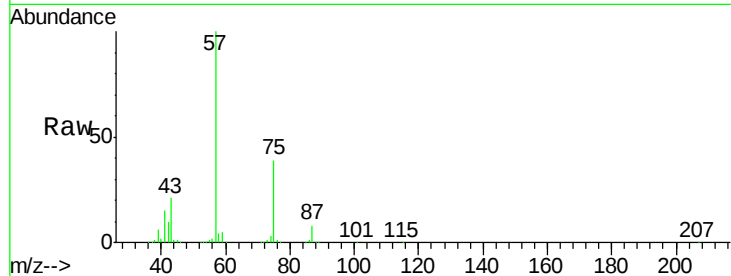




#57
 1,3-Dichloropropane
 Concen: 1.068 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN055095.D
 Acq: 17 Apr 2019 10:26

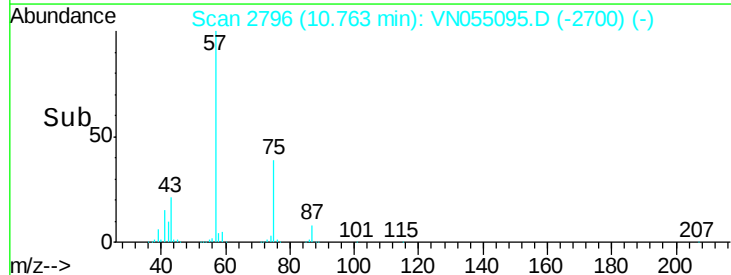
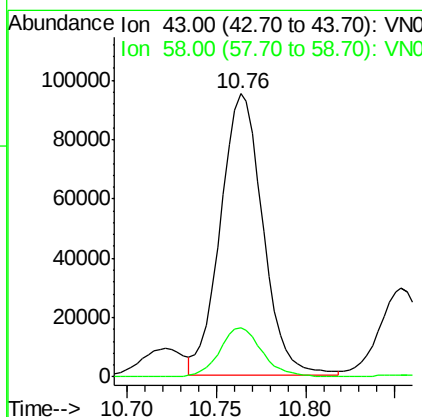
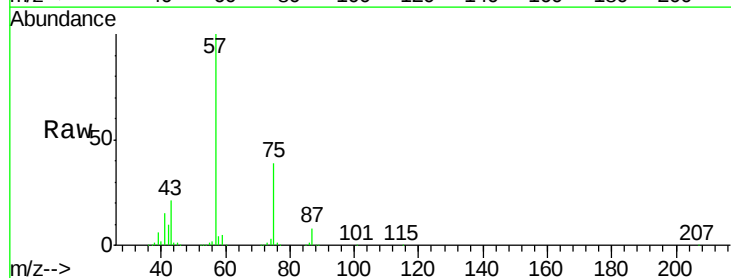
Instrument :
 MSVOA_N
 ClientSampleId :

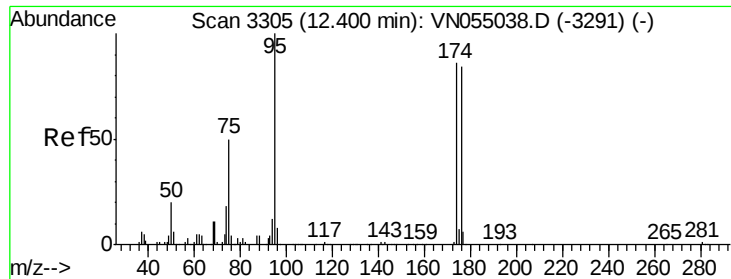
Tot Ion: 76 Resp: 9730
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 42.790 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN055095.D
 Acq: 17 Apr 2019 10:26

Tgt Ion: 43 Resp: 156726
 Ion Ratio Lower Upper
 43 100
 58 17.6 25.1 75.2#

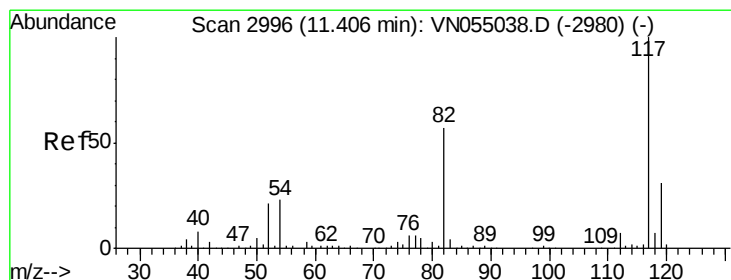
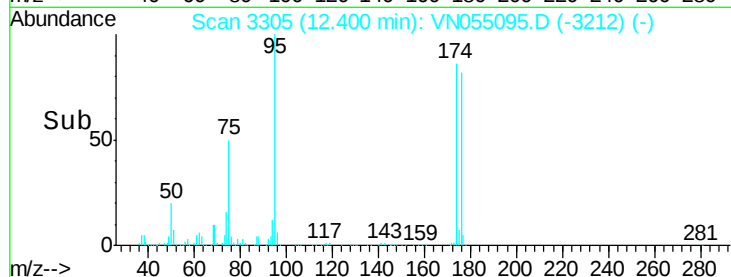
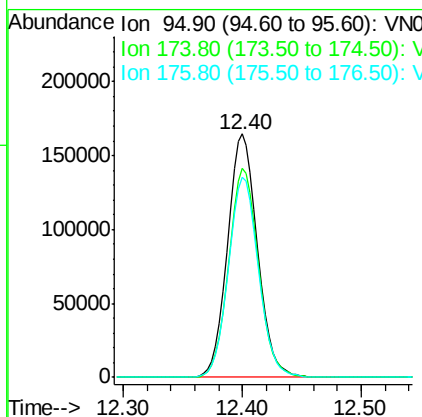
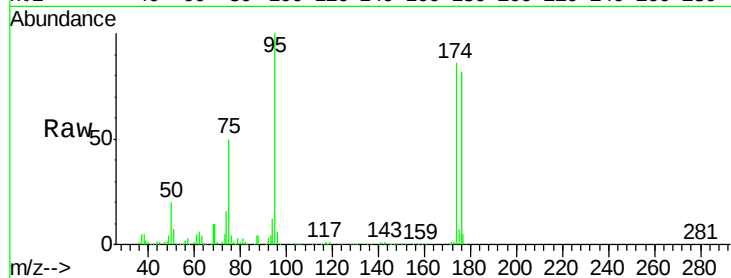




#62
4-Bromofluorobenzene
Concen: 43.174 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055095.D
Acq: 17 Apr 2019 10:26

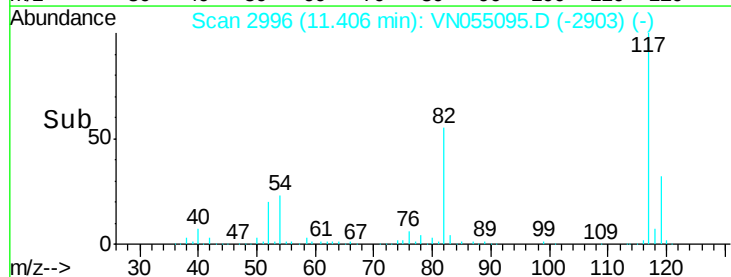
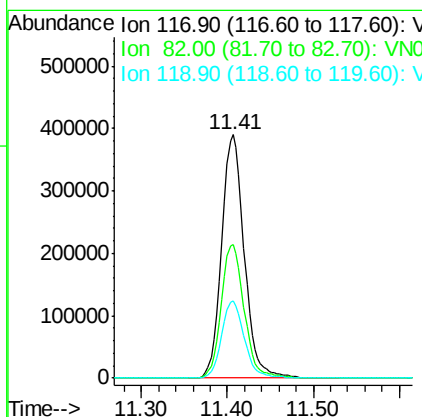
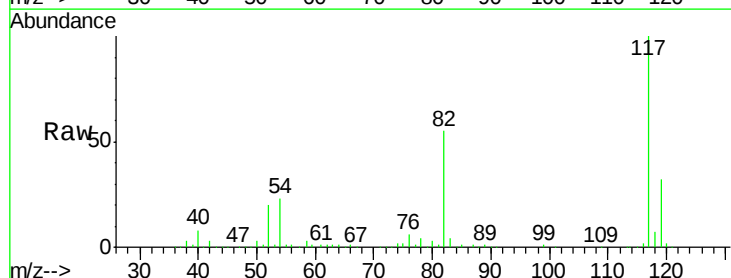
Instrument :
MSVOA_N
ClientSampleId :

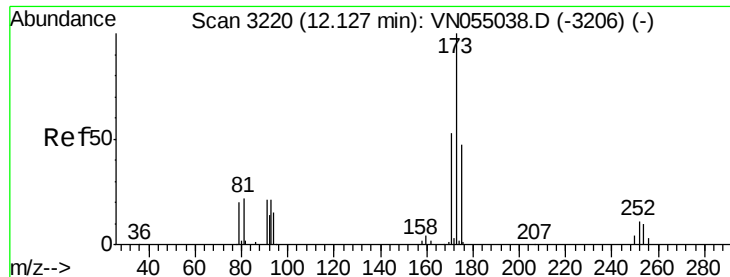
Tot Ion: 95 Resp: 286562
Ion Ratio Lower Upper
95 100
174 85.6 0.0 174.4
176 82.6 0.0 166.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055095.D
Acq: 17 Apr 2019 10:26

Tgt Ion: 117 Resp: 713803
Ion Ratio Lower Upper
117 100
82 54.7 44.6 66.8
119 31.5 25.5 38.3





#71

Bromoform

Concen: 0.923 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055095.D

Acq: 17 Apr 2019 10:26

Instrument :

MSVOA_N

ClientSampleId :

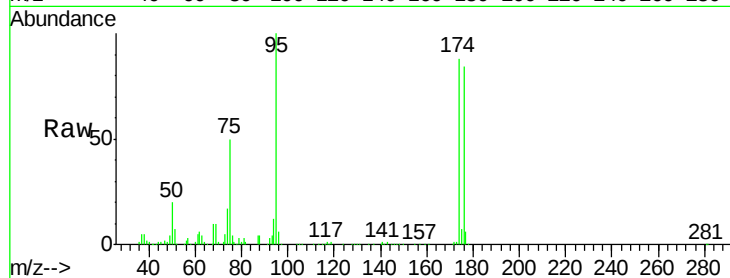
Tot Ion:173 Resp: 2796

Ion Ratio Lower Upper

173 100

175 602.5 24.3 73.0#

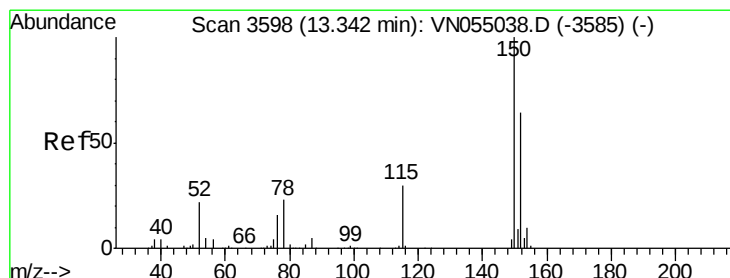
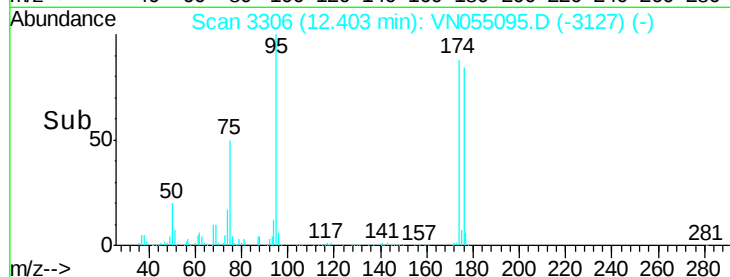
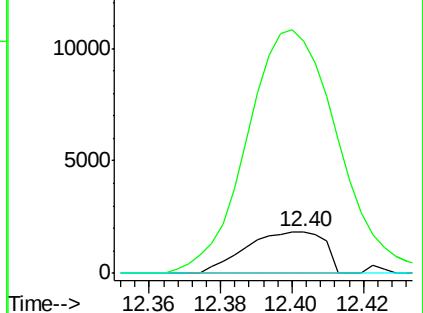
254 0.0 0.1 0.1#



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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055095.D

Acq: 17 Apr 2019 10:26

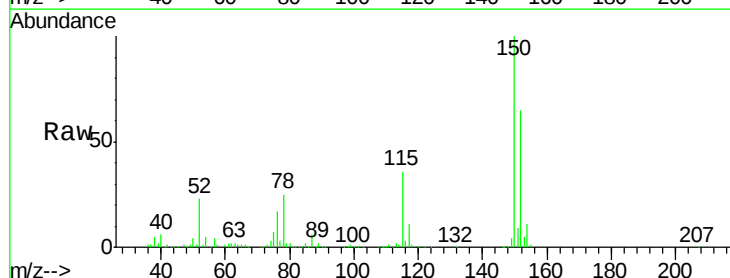
Tgt Ion:152 Resp: 217560

Ion Ratio Lower Upper

152 100

115 56.8 28.5 85.6

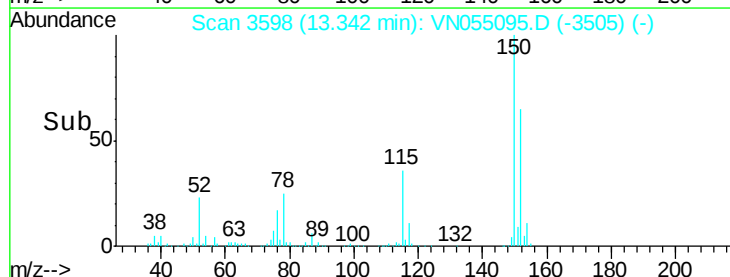
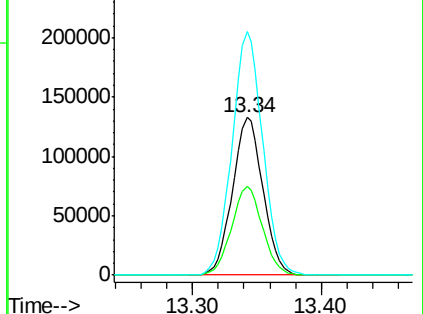
150 155.4 0.0 347.2

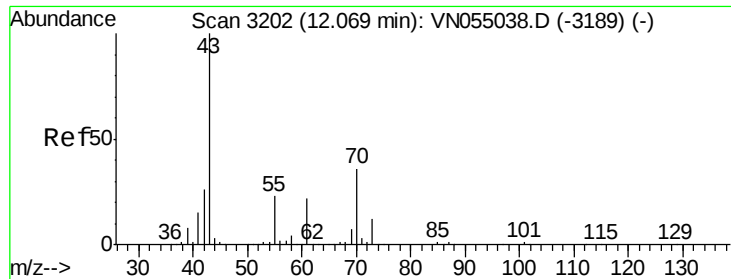


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 3.096 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN055095.D

Acq: 17 Apr 2019 10:26

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 16826

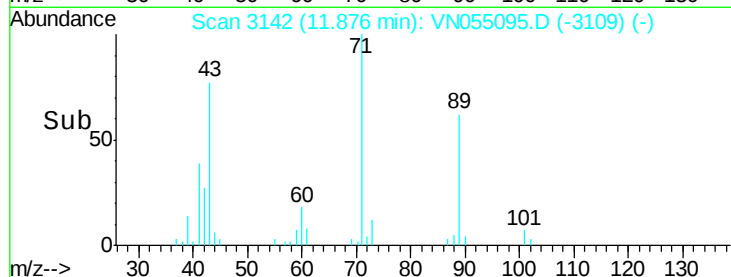
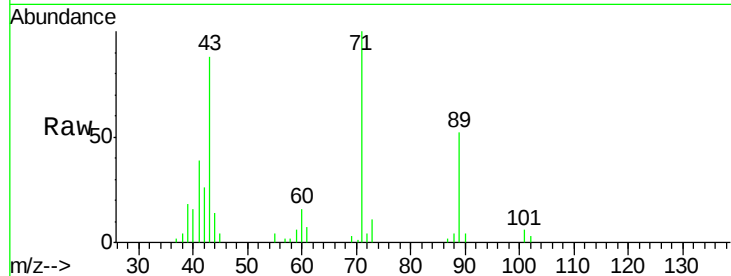
Ion Ratio Lower Upper

43 100

70 0.2 29.4 44.0#

55 4.6 19.0 28.4#

61 7.7 17.7 26.5#

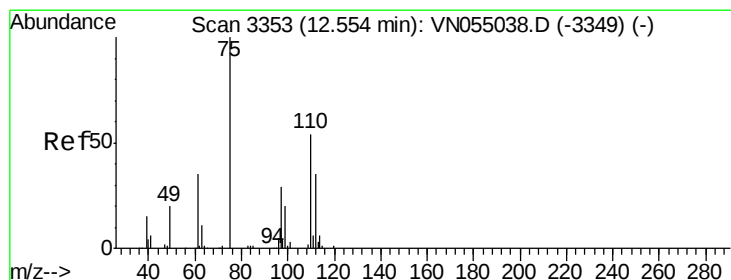
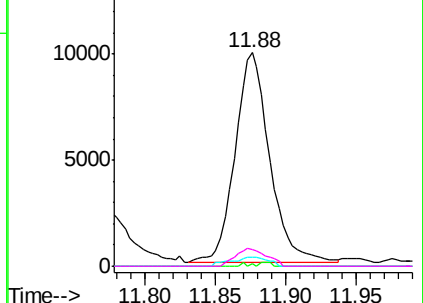


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 37.058 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055095.D

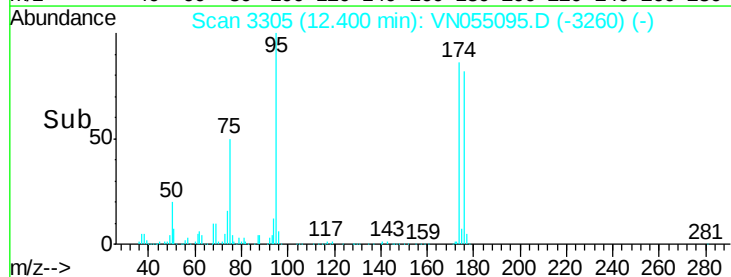
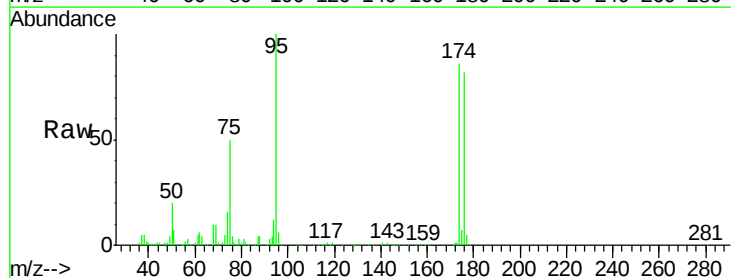
Acq: 17 Apr 2019 10:26

Tgt Ion: 75 Resp: 144982

Ion Ratio Lower Upper

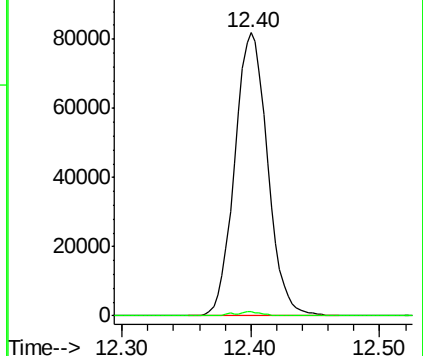
75 100

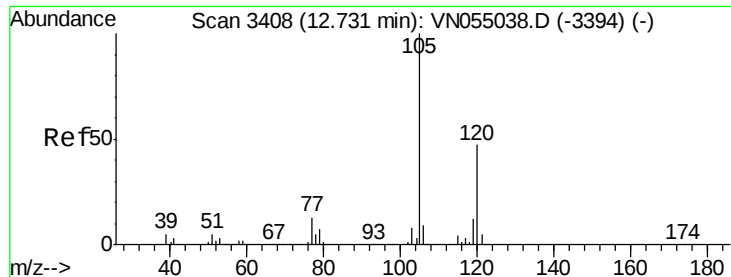
77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.675 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN055095.D

Acq: 17 Apr 2019 10:26

Instrument :

MSVOA_N

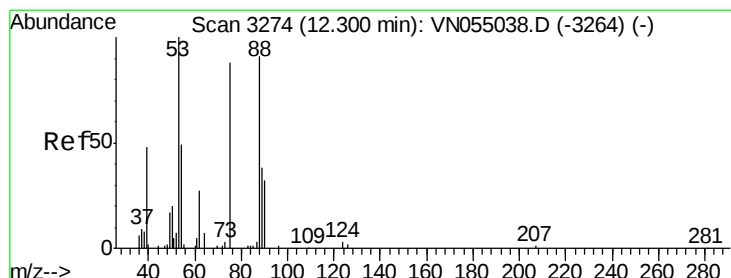
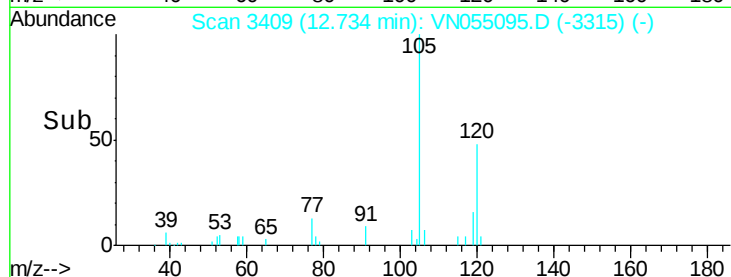
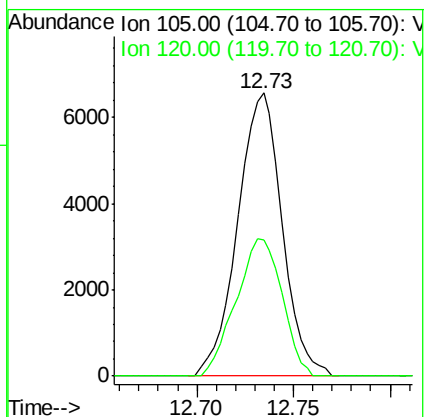
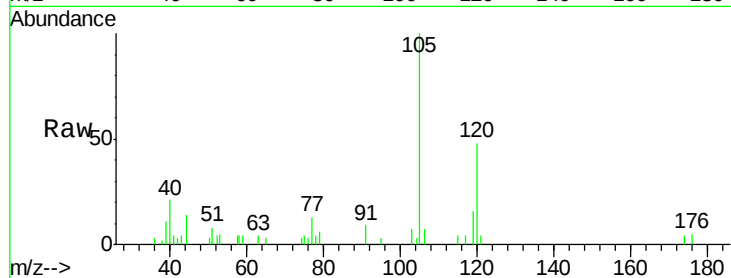
ClientSampleId :

Tot Ion:105 Resp: 10513

Ion Ratio Lower Upper

105 100

120 50.2 24.3 72.8



#81

trans-1,4-Dichloro-2-butene

Concen: 148.191 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055095.D

Acq: 17 Apr 2019 10:26

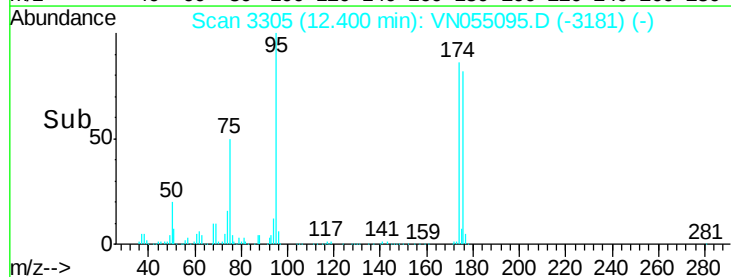
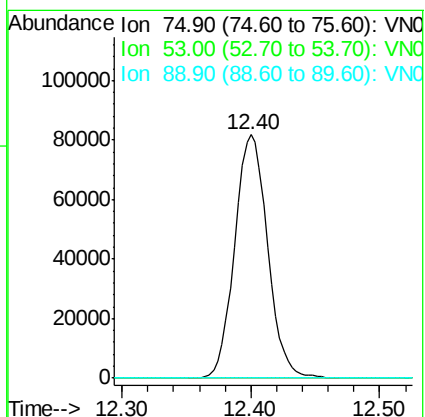
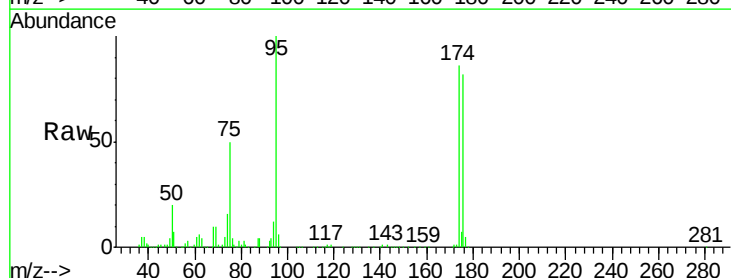
Tgt Ion: 75 Resp: 144982

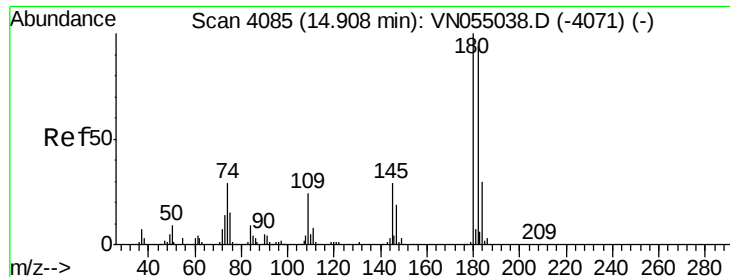
Ion Ratio Lower Upper

75 100

53 0.0 96.3 144.5#

89 0.0 38.6 57.8#





#93

1,2,4-Trichlorobenzene

Concen: 2.756 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN055095.D

Acq: 17 Apr 2019 10:26

Instrument :

MSVOA_N

ClientSampleId :

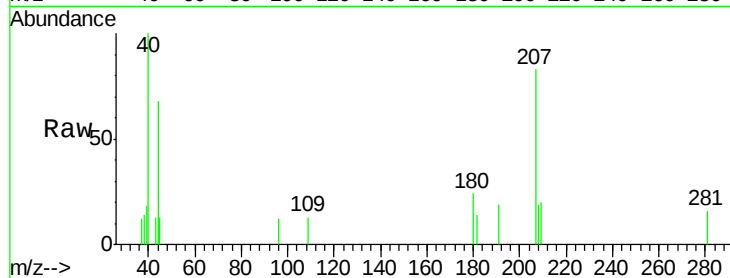
Tot Ion:180 Resp: 278

Ion Ratio Lower Upper

180 100

182 95.7 47.5 142.6

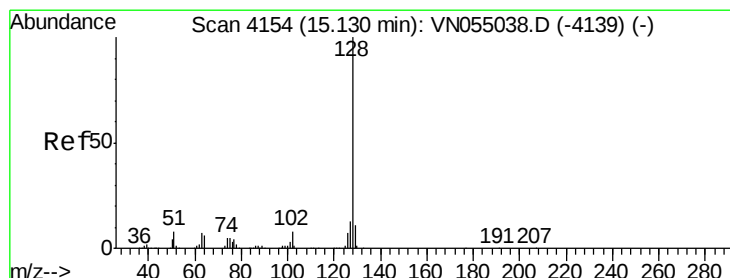
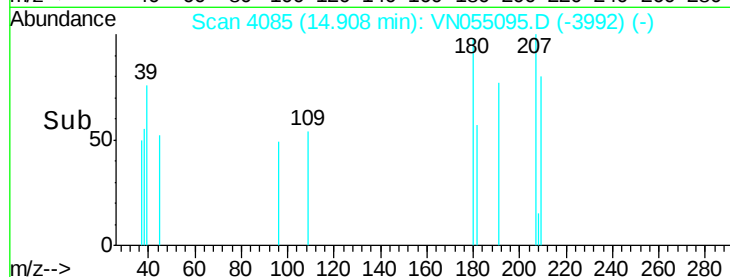
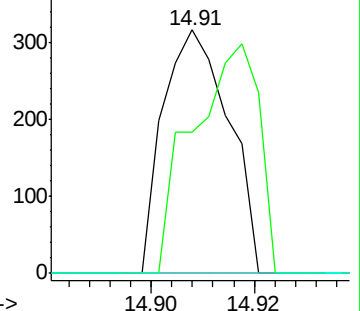
145 0.0 14.2 42.8#



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: 3.159 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN055095.D

Acq: 17 Apr 2019 10:26

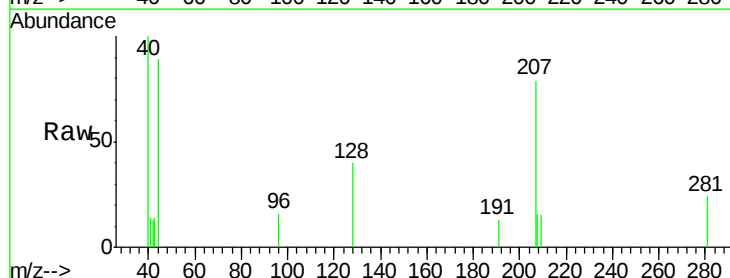
Tgt Ion:128 Resp: 658

Ion Ratio Lower Upper

128 100

127 0.0 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

