

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041719\
 Data File : VN055106.D
 Acq On : 17 Apr 2019 15:17
 Operator : JC/SP
 Sample : K2442-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

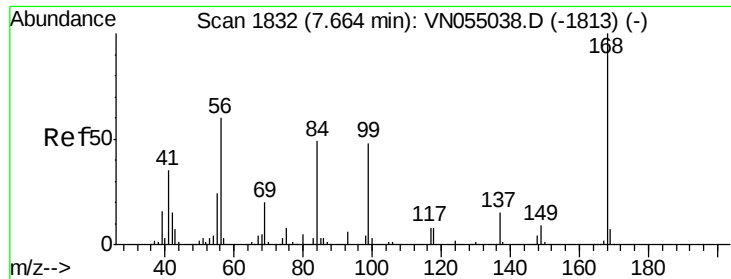
Quant Time: Apr 18 03:05:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041519W.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 15 12:28:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	509586	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	846163	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	720420	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	233977	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	332204	49.04	ug/l	0.00
Spiked Amount			Recovery	=	98.08%	
35) Dibromofluoromethane	7.59	113	271325	47.98	ug/l	0.00
Spiked Amount			Recovery	=	95.96%	
50) Toluene-d8	10.09	98	1004708	49.64	ug/l	0.00
Spiked Amount			Recovery	=	99.28%	
62) 4-Bromofluorobenzene	12.40	95	296422	45.05	ug/l	0.00
Spiked Amount			Recovery	=	90.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	7784	4.234	ug/l	95
18) Methyl Acetate	4.33	43	1810	Below Cal	#	91
20) Methylene Chloride	4.54	84	112500	17.407	ug/l	99
25) 2-Butanone	6.85	43	656	0.239	ug/l #	53
29) Tetrahydrofuran	7.22	42	477	0.265	ug/l #	66
30) Chloroform	7.37	83	3529	0.335	ug/l	94
31) Cyclohexane	7.66	56	11247	Below Cal	#	3
36) 1,1-Dichloropropene	7.66	75	38860	4.872	ug/l #	49
38) Carbon Tetrachloride	7.66	117	48155	6.345	ug/l #	17
43) Isopropyl Acetate	8.17	43	13692	1.368	ug/l #	87
45) 1,2-Dichloropropane	9.27	63	1700	0.254	ug/l #	44
48) Methyl methacrylate	9.18	41	6379	1.286	ug/l #	17
51) 4-Methyl-2-Pentanone	10.03	43	7422	1.284	ug/l #	39
54) cis-1,3-Dichloropropene	9.90	75	46920	5.498	ug/l #	67
57) 1,3-Dichloropropane	10.76	76	9581	1.061	ug/l #	43
58) 2-Chloroethyl Vinyl ether	9.75	63	65	10.759	ug/l #	50
59) 2-Hexanone	10.76	43	152511	42.003	ug/l #	54
74) N-amyl acetate	11.88	43	15940	2.727	ug/l #	54
76) 1,2,3-Trichloropropane	12.40	75	151836	36.087	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	5301	0.316	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	151836	144.307	ug/l #	2
84) 1,2,4-Trimethylbenzene	13.04	105	5492	0.346	ug/l	95
93) 1,2,4-Trichlorobenzene	14.91	180	414	2.786	ug/l #	61
95) Naphthalene	15.13	128	34147	6.897	ug/l	99

(#) = 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: VN055106.D

Acq: 17 Apr 2019 15:17

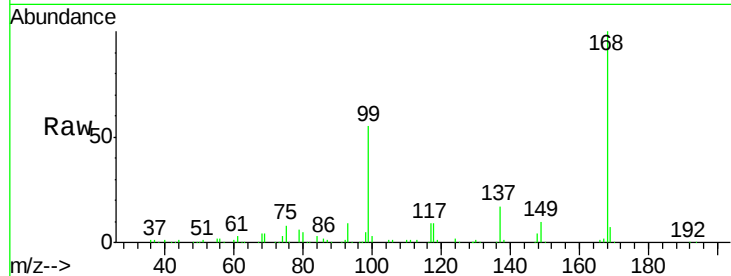
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 509586

Ion Ratio Lower Upper

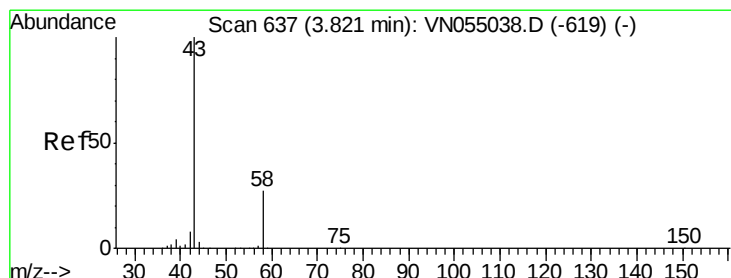
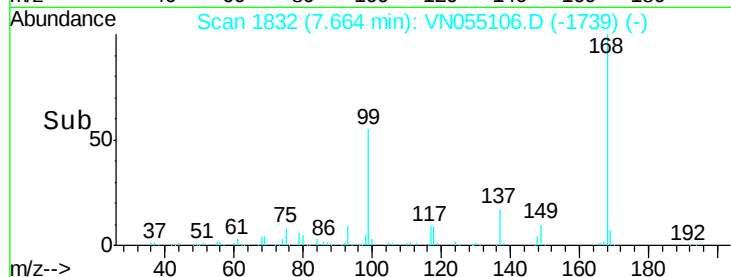
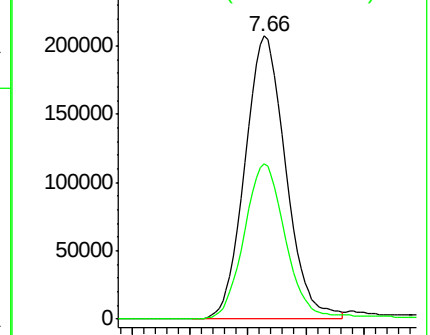
168 100

99 55.1 41.9 62.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 4.234 ug/l

RT: 3.82 min Scan# 637

Delta R.T. -0.00 min

Lab File: VN055106.D

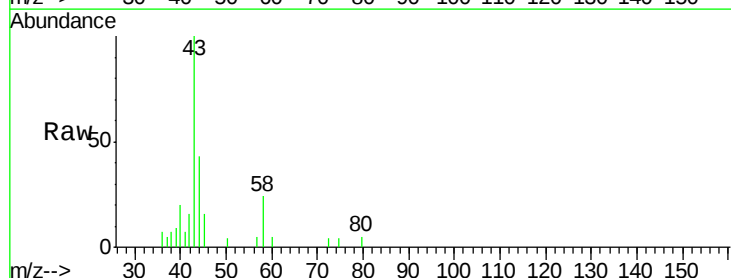
Acq: 17 Apr 2019 15:17

Tgt Ion: 43 Resp: 7784

Ion Ratio Lower Upper

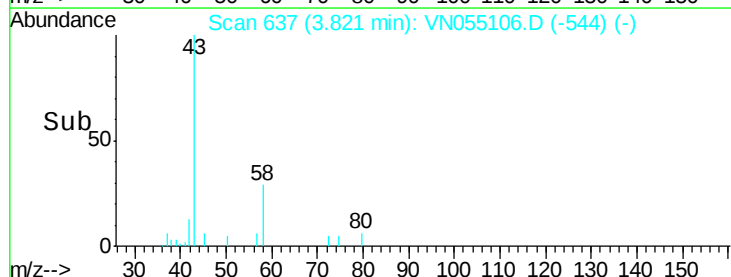
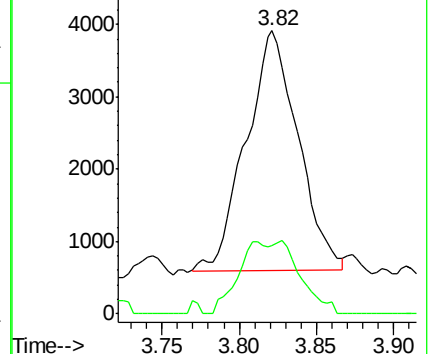
43 100

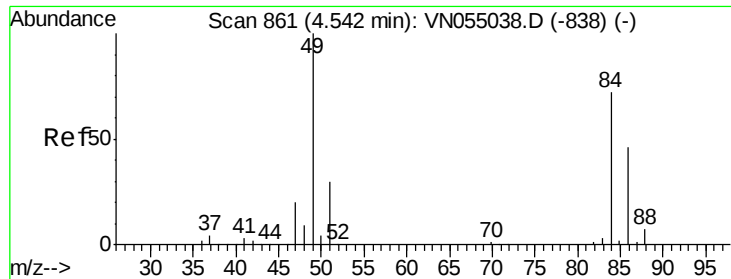
58 28.6 20.9 31.3



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

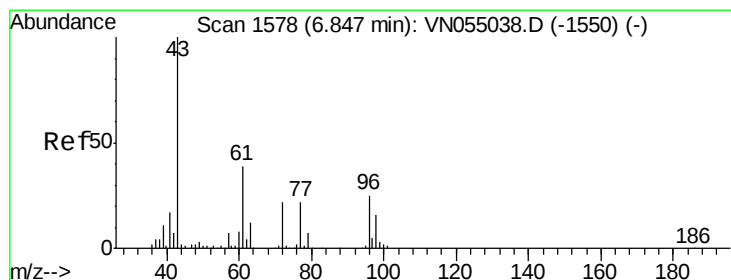
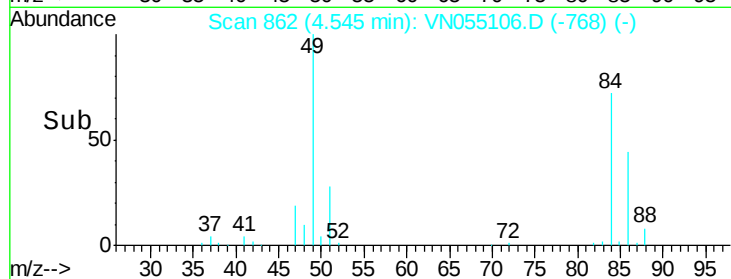
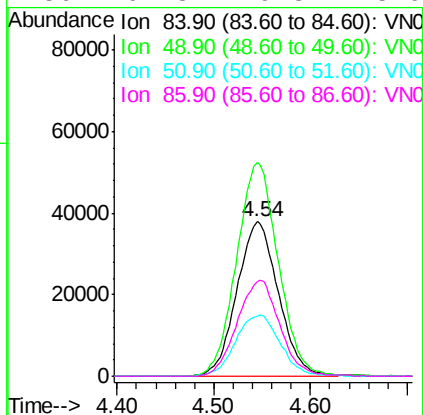
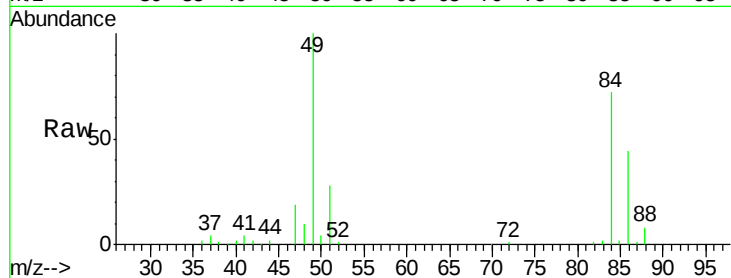




#20
Methvlene Chloride
Concen: 17.407 ug/l
RT: 4.54 min Scan# 862
Delta R.T. 0.00 min
Lab File: VN055106.D
Acq: 17 Apr 2019 15:17

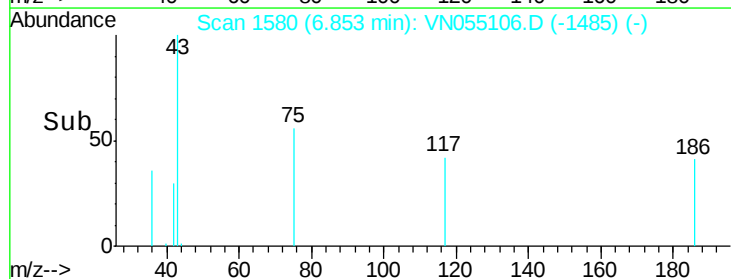
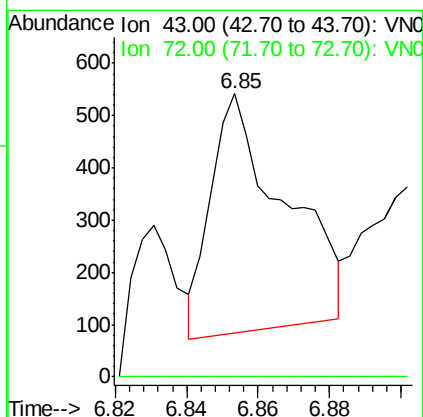
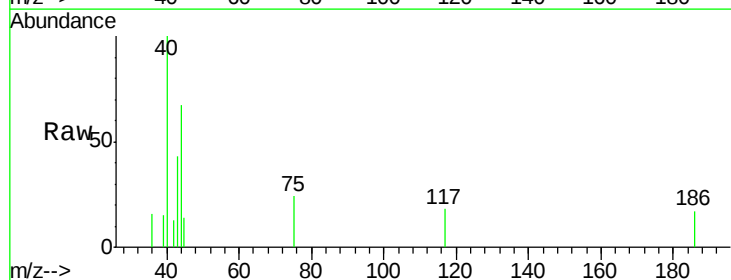
Instrument :
MSVOA_N
ClientSampleId :

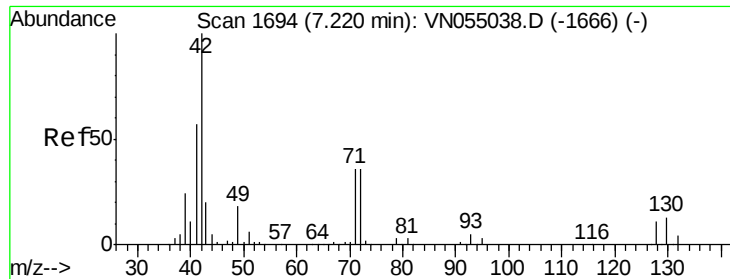
Tot Ion: 84 Resp: 112500
Ion Ratio Lower Upper
84 100
49 138.3 109.4 164.2
51 39.1 32.2 48.4
86 61.3 49.3 73.9



#25
2-Butanone
Concen: 0.239 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.01 min
Lab File: VN055106.D
Acq: 17 Apr 2019 15:17

Tgt Ion: 43 Resp: 656
Ion Ratio Lower Upper
43 100
72 0.0 18.1 27.1#

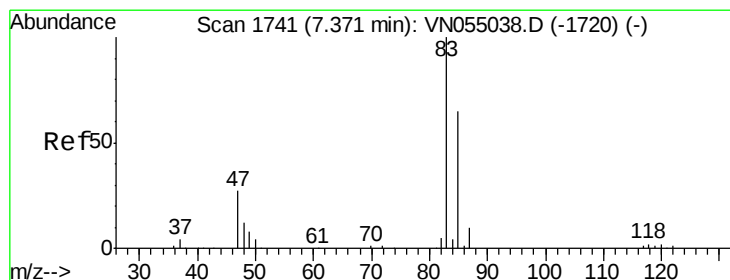
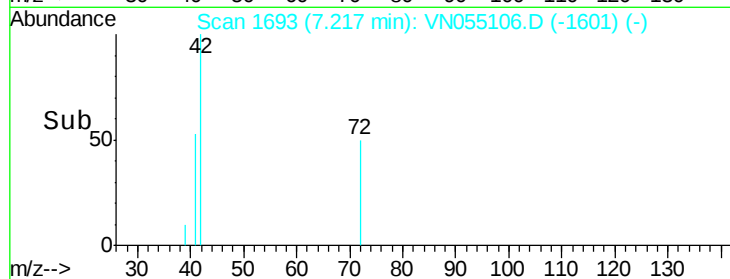
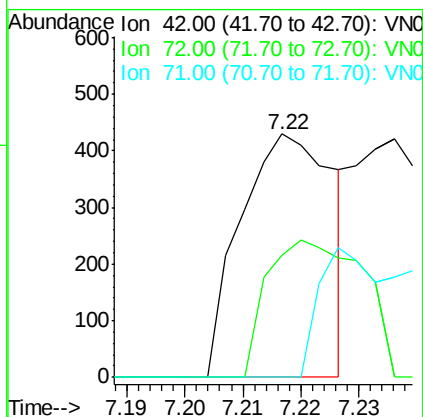
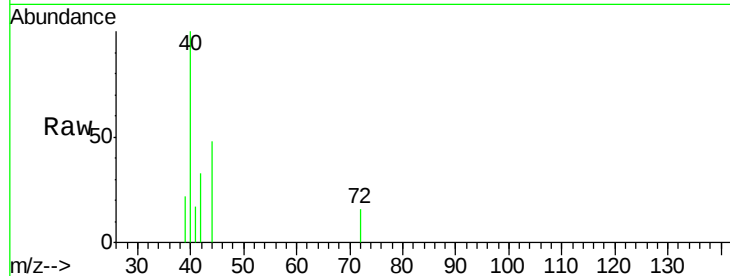




#29
Tetrahydrofuran
Concen: 0.265 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. -0.00 min
Lab File: VN055106.D
Acq: 17 Apr 2019 15:17

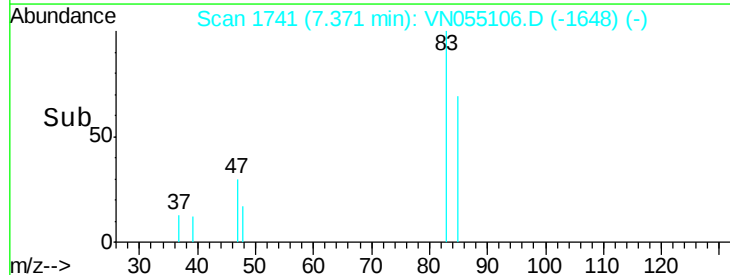
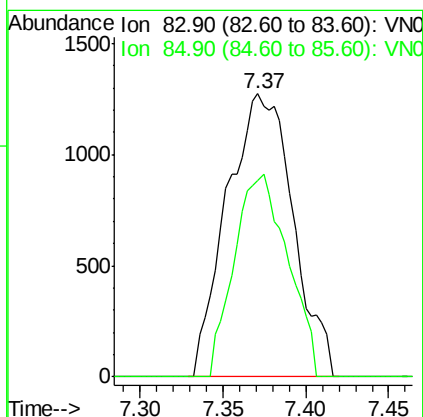
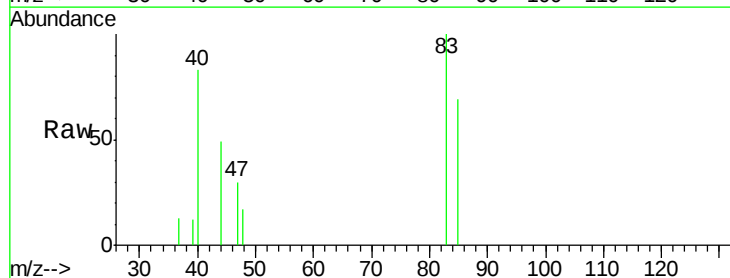
Instrument :
MSVOA_N
ClientSampled :

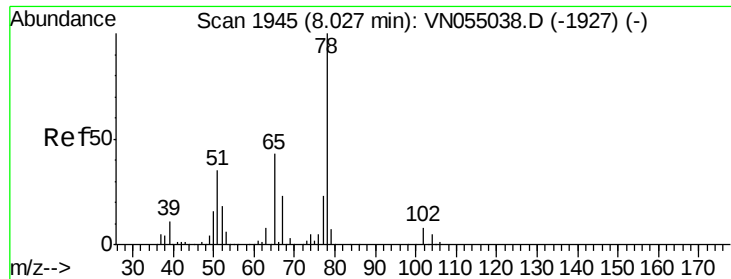
Tot Ion: 42 Resp: 477
Ion Ratio Lower Upper
42 100
72 58.7 29.4 44.0#
71 53.0 27.8 41.6#



#30
Chloroform
Concen: 0.335 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN055106.D
Acq: 17 Apr 2019 15:17

Tgt Ion: 83 Resp: 3529
Ion Ratio Lower Upper
83 100
85 69.2 51.8 77.6

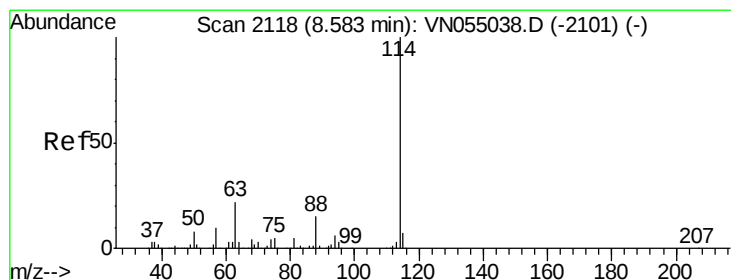
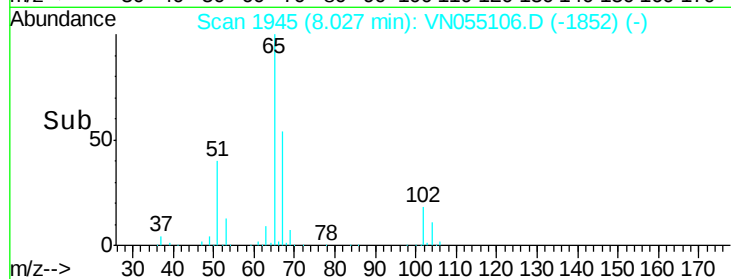
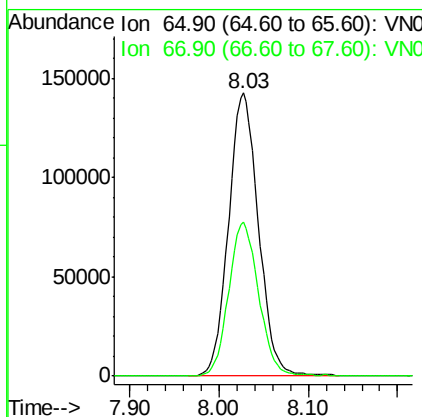
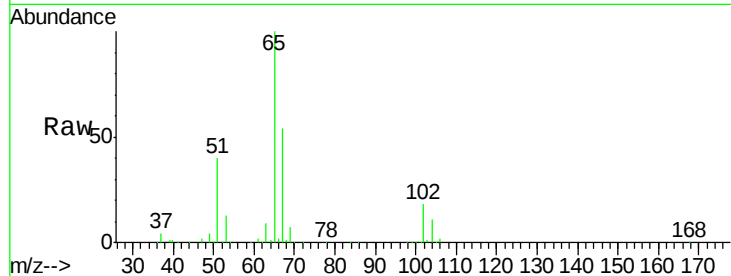




#33
 1,2-Dichloroethane-d4
 Concen: 49.043 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN055106.D
 Acq: 17 Apr 2019 15:17

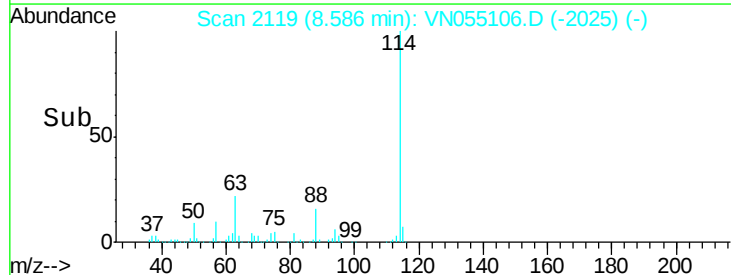
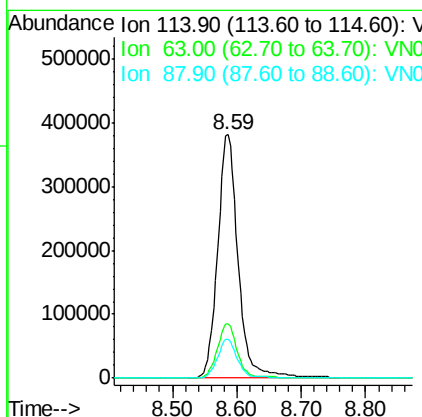
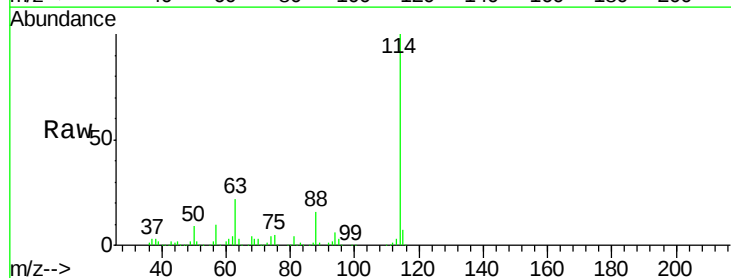
Instrument :
 MSVOA_N
 ClientSampleId :

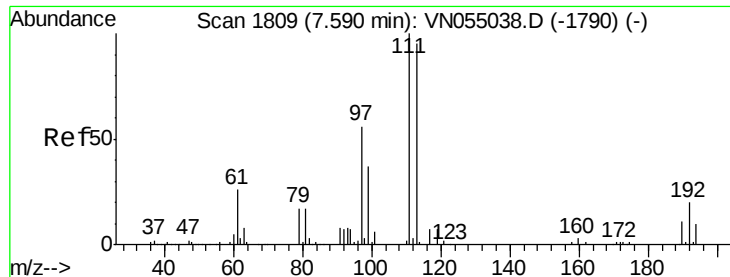
Tot Ion: 65 Resp: 332204
 Ion Ratio Lower Upper
 65 100
 67 54.4 0.0 106.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055106.D
 Acq: 17 Apr 2019 15:17

Tgt Ion: 114 Resp: 846163
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 45.2
 88 16.1 0.0 31.8

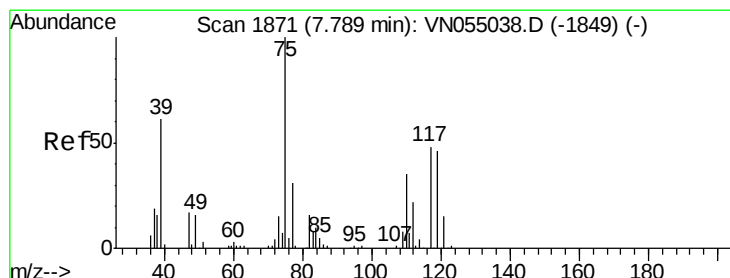
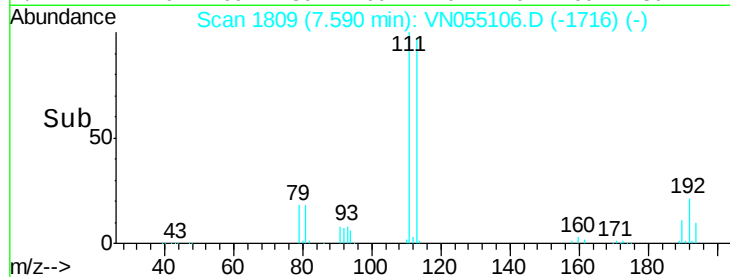
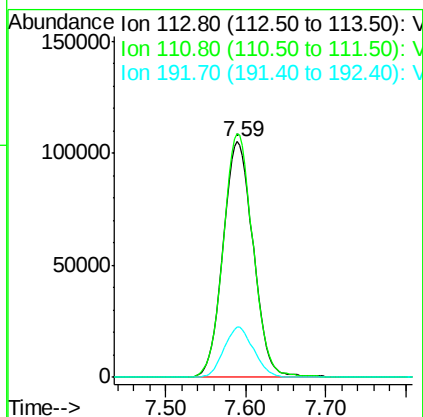
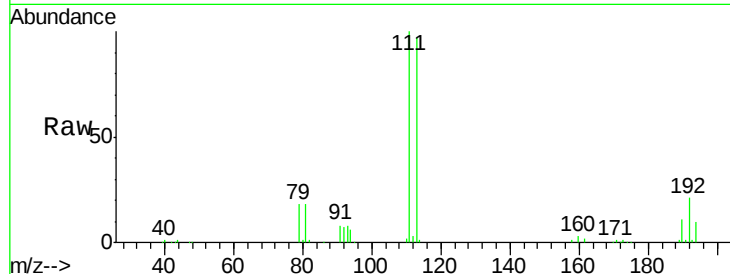




#35
 Dibromofluoromethane
 Concen: 47.980 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN055106.D
 Acq: 17 Apr 2019 15:17

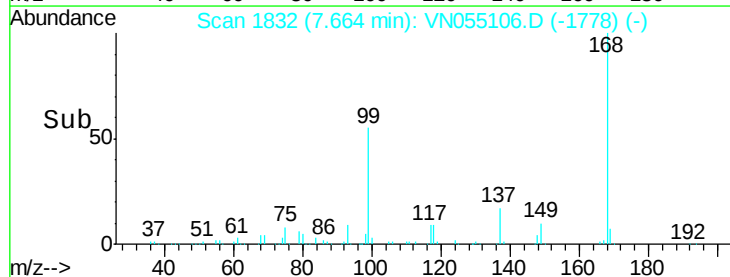
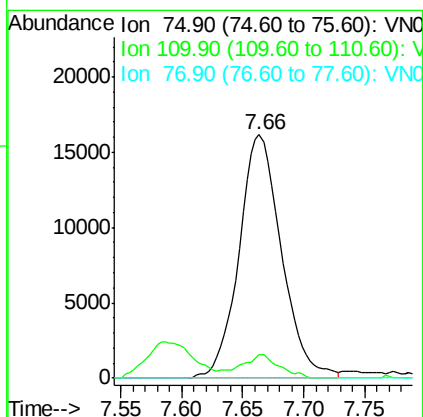
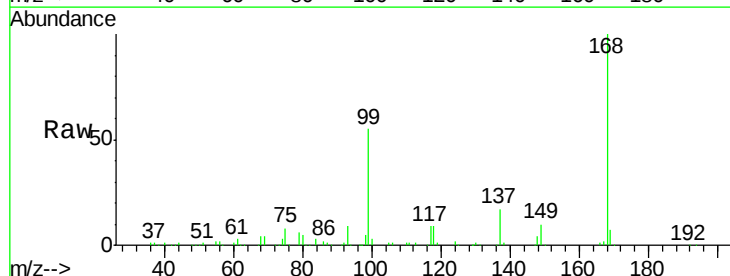
Instrument :
 MSVOA_N
 ClientSampled :

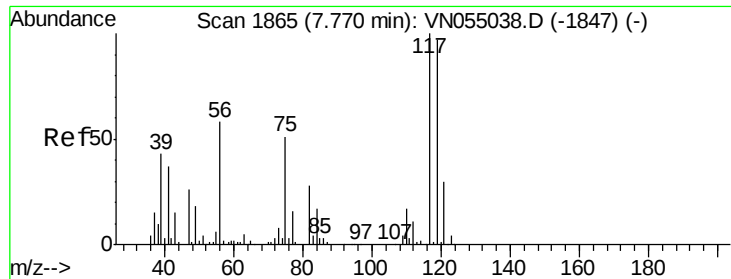
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.1	123.1
192	21.1	16.5	24.7



#36
 1,1-Dichloropropene
 Concen: 4.872 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN055106.D
 Acq: 17 Apr 2019 15:17

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	17.5	52.5#
77	0.0	24.9	37.3#

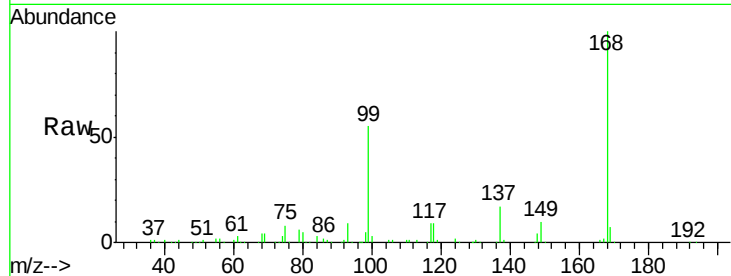




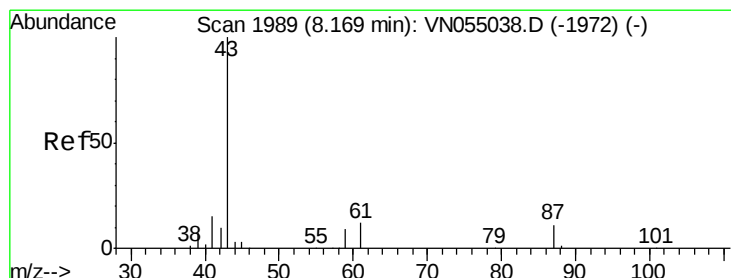
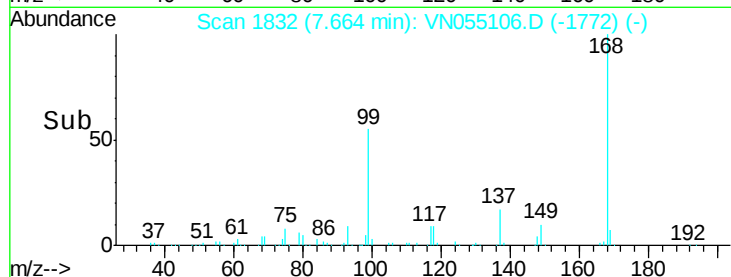
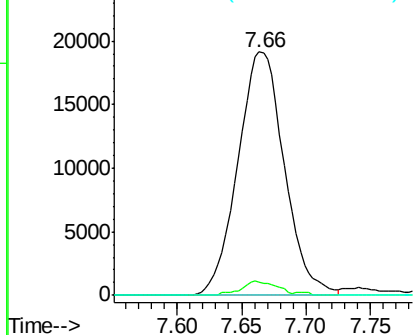
#38
Carbon Tetrachloride
Concen: 6.345 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN055106.D
Acq: 17 Apr 2019 15:17

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 48155
Ion Ratio Lower Upper
117 100
119 5.6 76.3 114.5#
121 0.0 23.9 35.9#

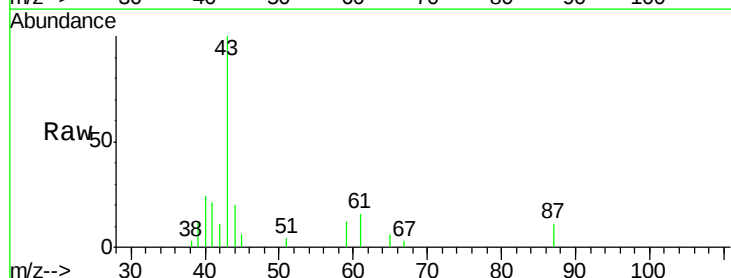


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

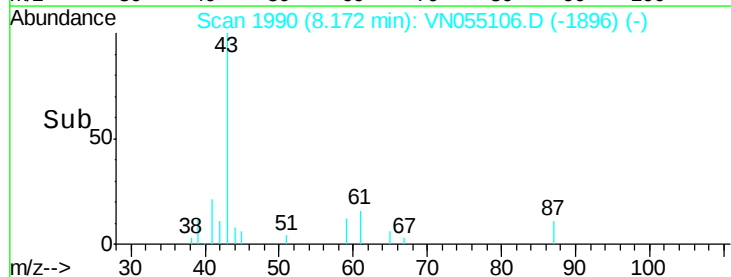
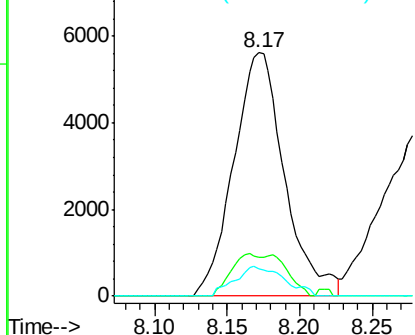


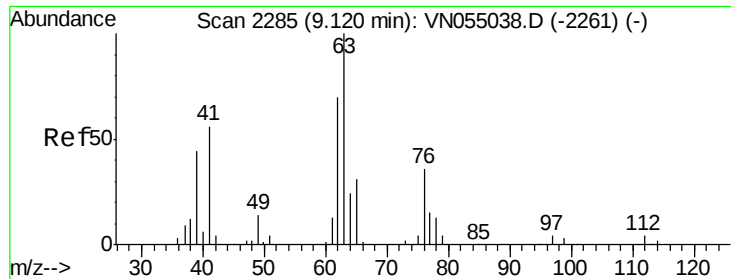
#43
Isopropyl Acetate
Concen: 1.368 ug/l
RT: 8.17 min Scan# 1990
Delta R.T. 0.00 min
Lab File: VN055106.D
Acq: 17 Apr 2019 15:17

Tgt Ion: 43 Resp: 13692
Ion Ratio Lower Upper
43 100
61 9.5 14.3 21.5#
87 11.7 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

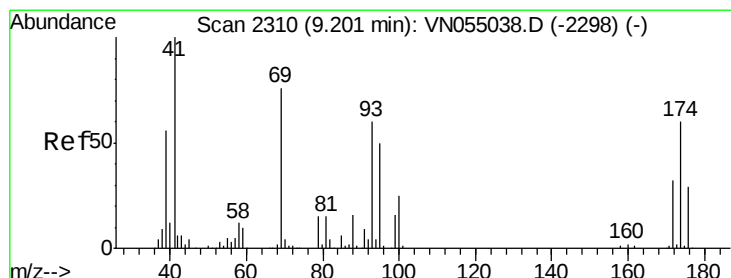
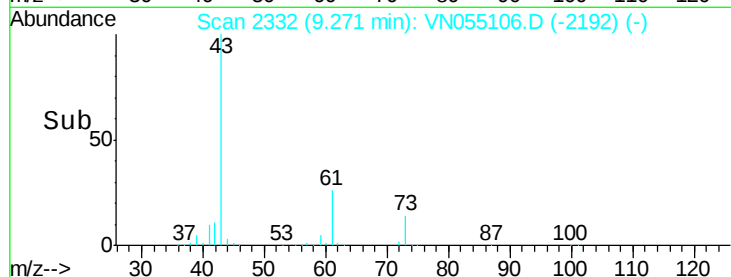
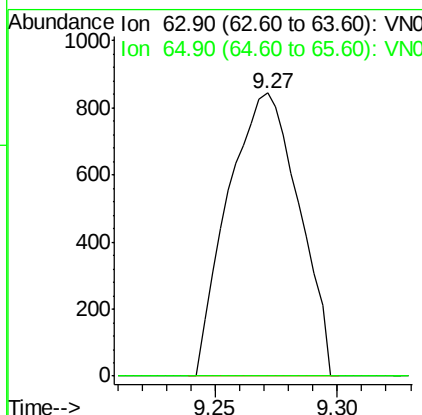
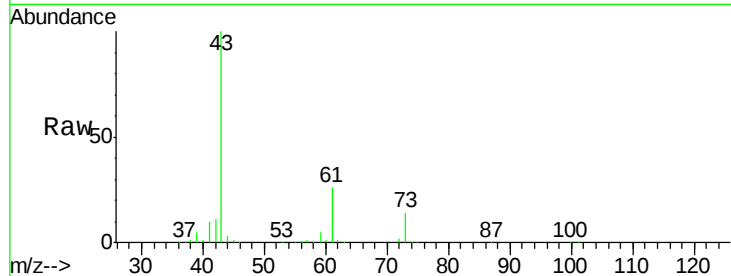




#45
 1,2-Dichloropropane
 Concen: 0.254 ug/l
 RT: 9.27 min Scan# 2332
 Delta R.T. 0.15 min
 Lab File: VN055106.D
 Acq: 17 Apr 2019 15:17

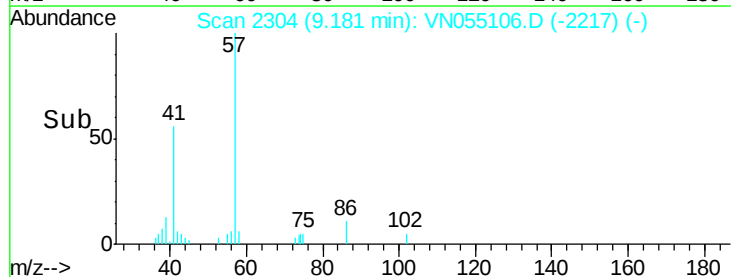
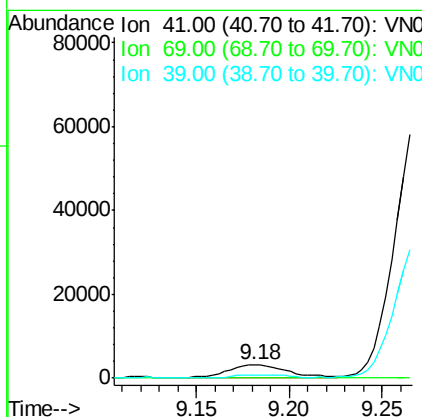
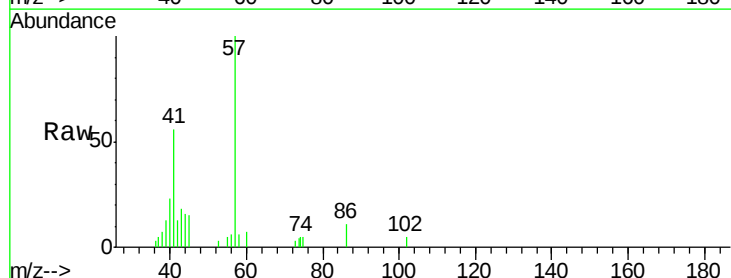
Instrument :
 MSVOA_N
 ClientSampled :

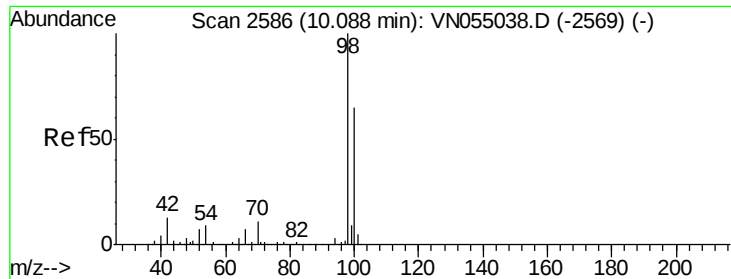
Tot Ion: 63 Resp: 1700
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.4 36.6#



#48
 Methyl methacrylate
 Concen: 1.286 ug/l
 RT: 9.18 min Scan# 2304
 Delta R.T. -0.02 min
 Lab File: VN055106.D
 Acq: 17 Apr 2019 15:17

Tgt Ion: 41 Resp: 6379
 Ion Ratio Lower Upper
 41 100
 69 0.0 60.5 90.7#
 39 0.0 43.9 65.9#





#50

Toluene-d8

Concen: 49.641 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055106.D

Acq: 17 Apr 2019 15:17

Instrument :

MSVOA_N

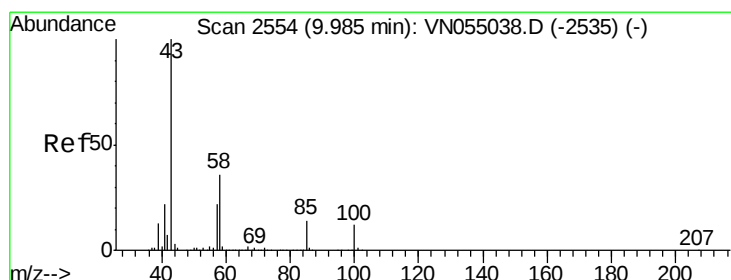
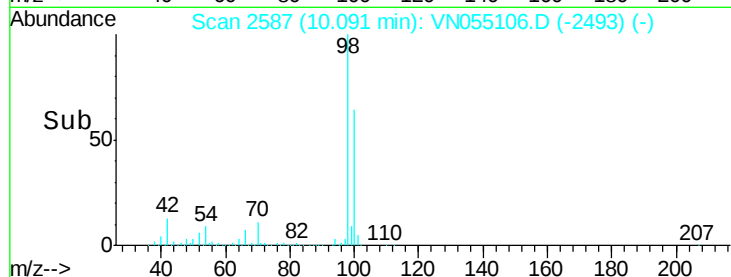
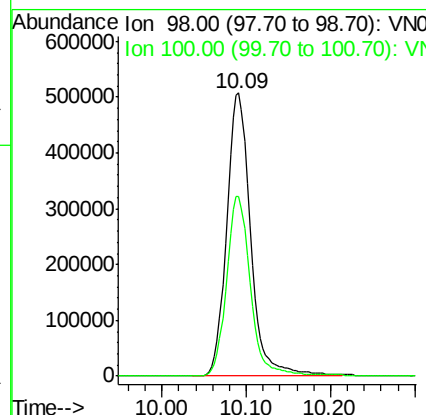
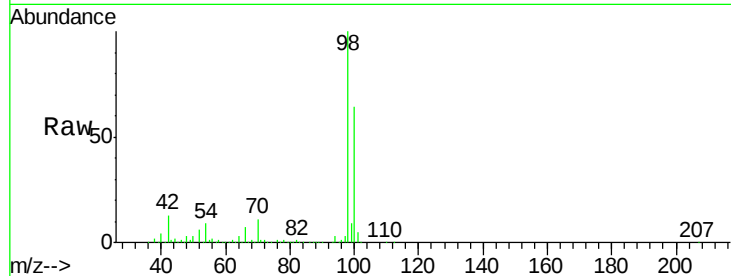
ClientSampleId :

Tot Ion: 98 Resp: 1004708

Ion Ratio Lower Upper

98 100

100 63.1 51.1 76.7



#51

4-Methyl-2-Pentanone

Concen: 1.284 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN055106.D

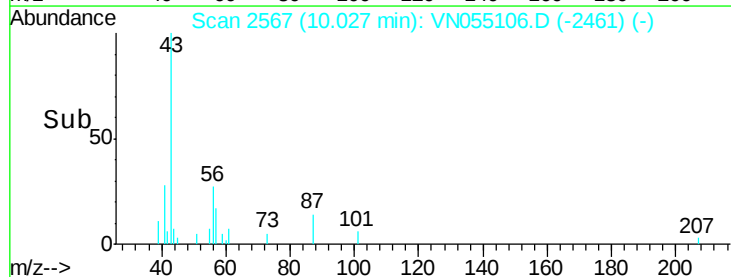
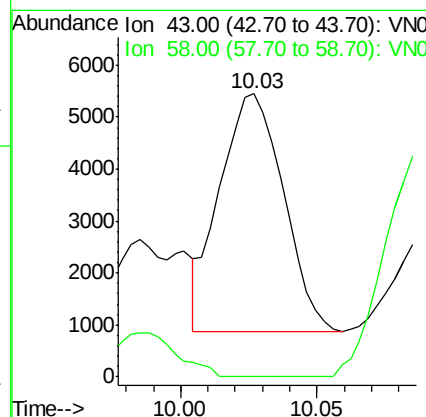
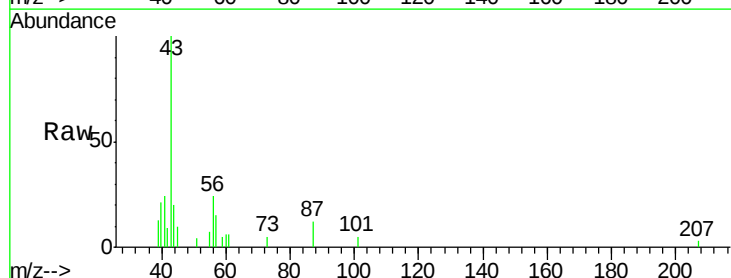
Acq: 17 Apr 2019 15:17

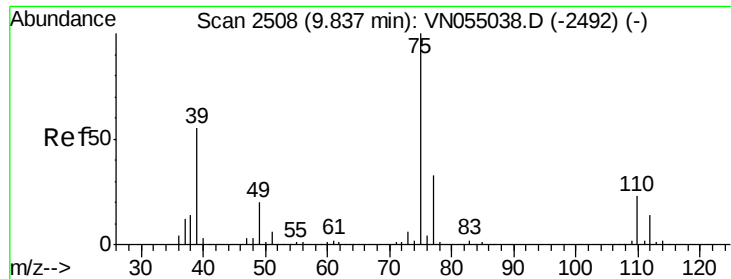
Tgt Ion: 43 Resp: 7422

Ion Ratio Lower Upper

43 100

58 0.0 29.0 43.4#



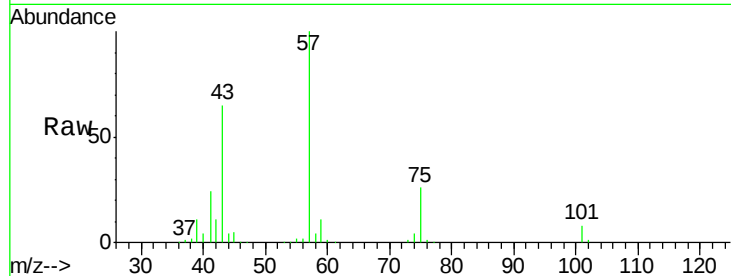


#54

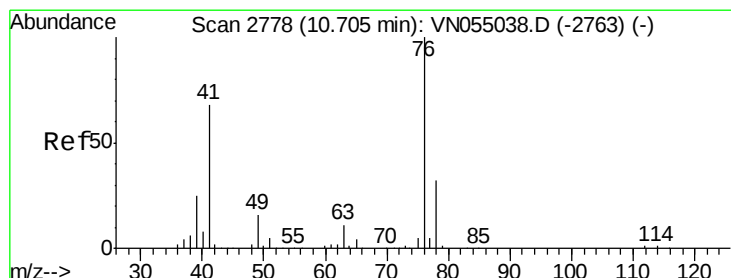
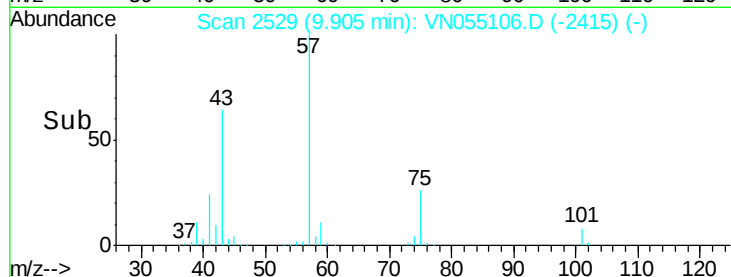
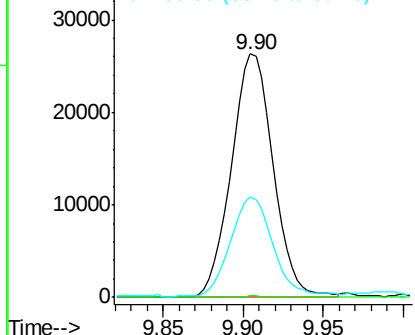
cis-1,3-Dichloropropene
 Concen: 5.498 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN055106.D
 Acq: 17 Apr 2019 15:17

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 46920
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.8 38.6#
 39 40.7 43.8 65.8#



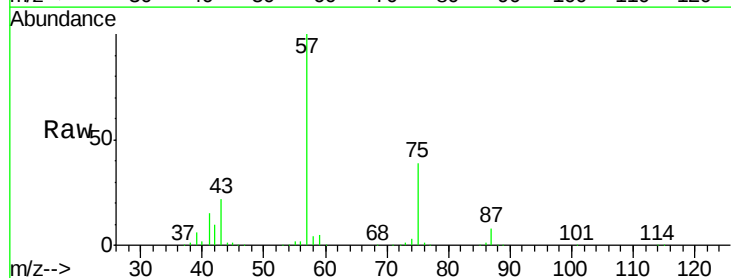
Abundance Ion 74.90 (74.60 to 75.60): VNC
 Ion 76.90 (76.60 to 77.60): VNC
 Ion 39.00 (38.70 to 39.70): VNC



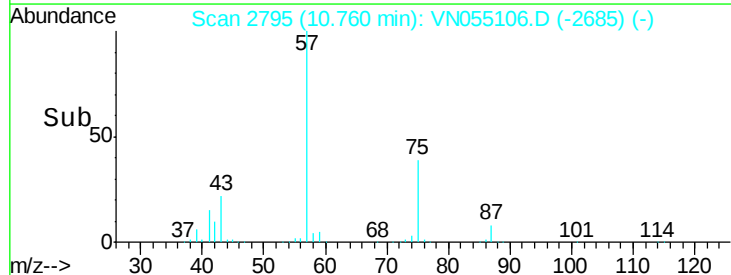
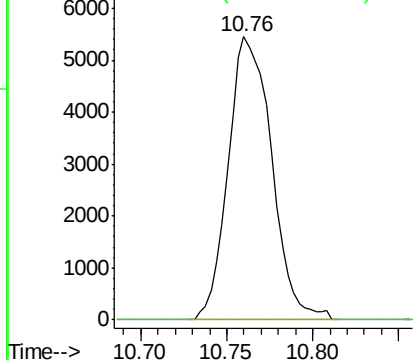
#57

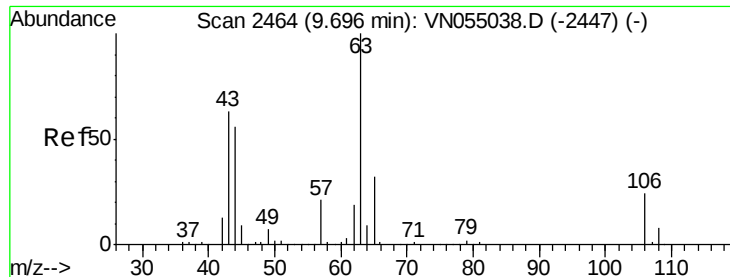
1,3-Dichloropropane
 Concen: 1.061 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.05 min
 Lab File: VN055106.D
 Acq: 17 Apr 2019 15:17

Tgt Ion: 76 Resp: 9581
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VNC
 Ion 77.90 (77.60 to 78.60): VNC

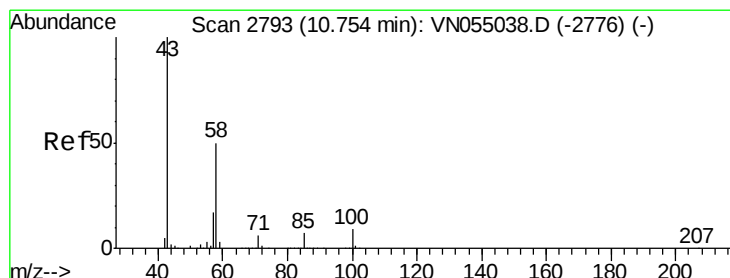
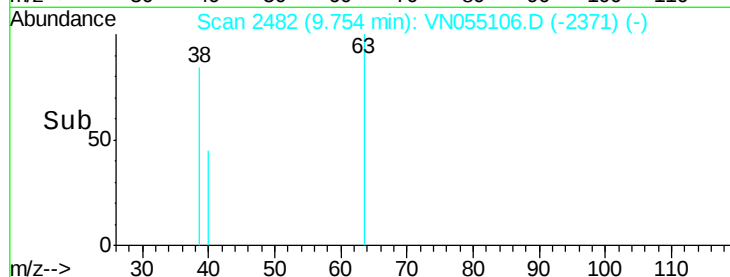
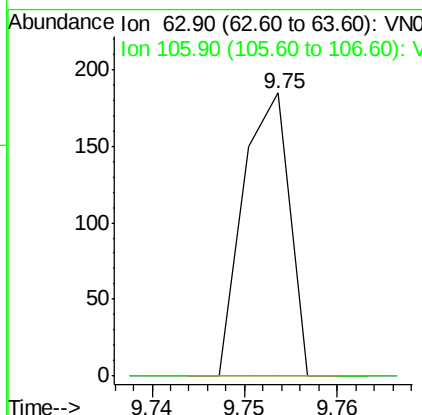
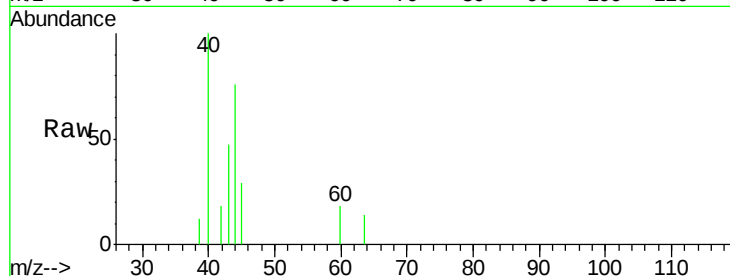




#58
 2-Chloroethyl Vinyl ether
 Concen: 10.759 ug/l
 RT: 9.75 min Scan# 2482
 Delta R.T. 0.06 min
 Lab File: VN055106.D
 Acq: 17 Apr 2019 15:17

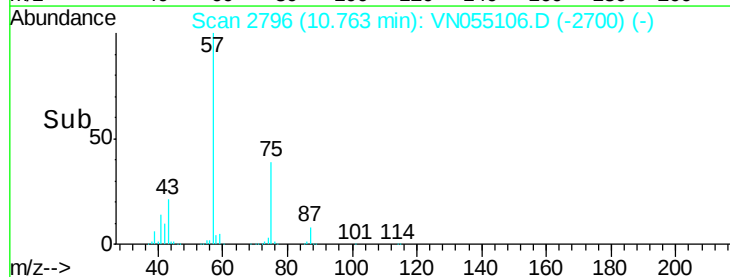
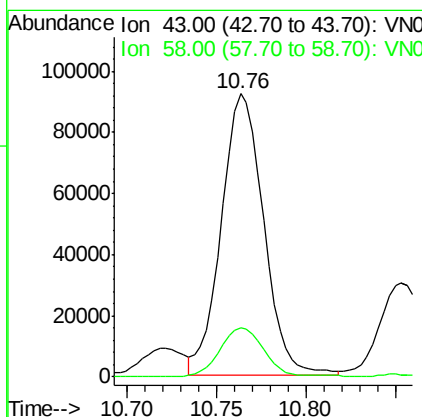
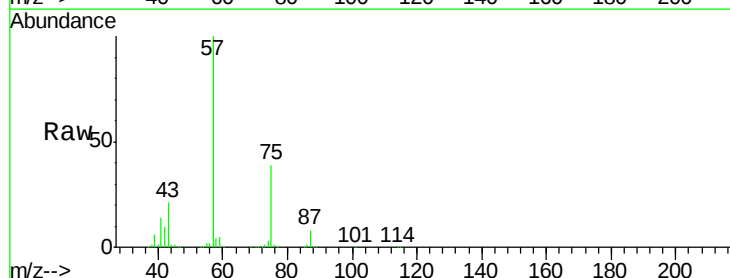
Instrument :
 MSVOA_N
 ClientSampleId :

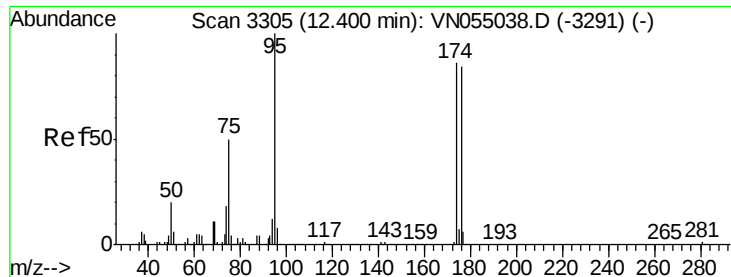
Tot Ion: 63 Resp: 65
 Ion Ratio Lower Upper
 63 100
 106 0.0 20.0 30.0#



#59
 2-Hexanone
 Concen: 42.003 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN055106.D
 Acq: 17 Apr 2019 15:17

Tgt Ion: 43 Resp: 152511
 Ion Ratio Lower Upper
 43 100
 58 18.4 25.1 75.2#





#62

4-Bromofluorobenzene

Concen: 45.050 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN055106.D

Acq: 17 Apr 2019 15:17

Instrument :

MSVOA_N

ClientSampleId :

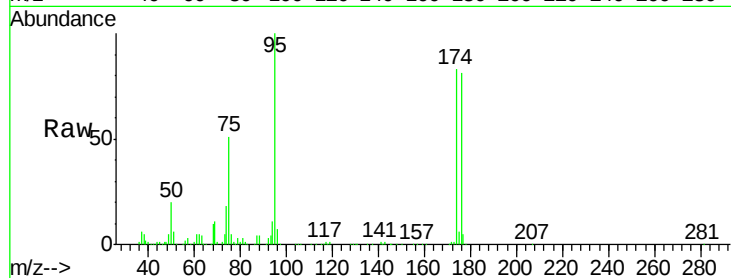
Tot Ion: 95 Resp: 296422

Ion Ratio Lower Upper

95 100

174 84.9 0.0 174.4

176 81.8 0.0 166.8



Abundance Ion 94.90 (94.60 to 95.60): VN055106.D (-3212) (-)

Ion 173.80 (173.50 to 174.50): VN055106.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN055106.D (-3212) (-)

12.40

200000

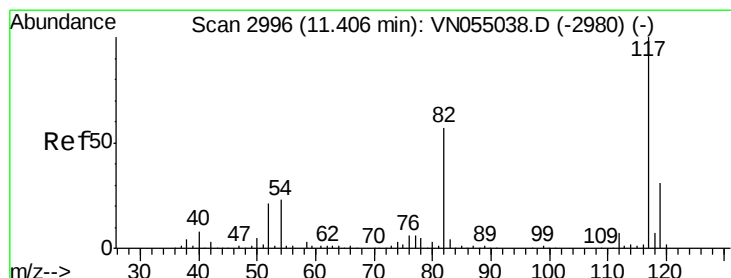
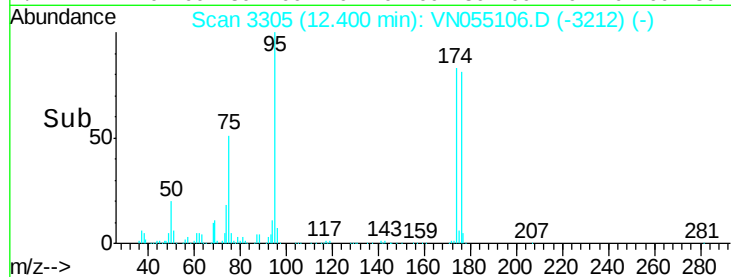
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN055106.D

Acq: 17 Apr 2019 15:17

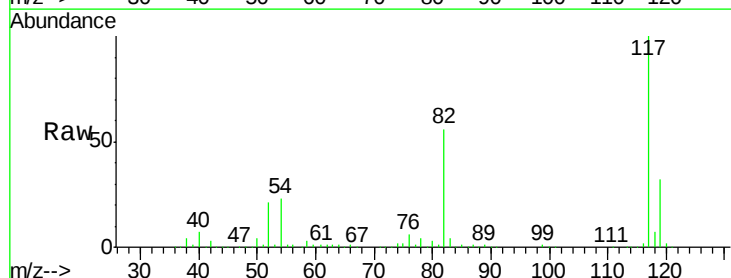
Tgt Ion: 117 Resp: 720420

Ion Ratio Lower Upper

117 100

82 55.9 44.6 66.8

119 31.8 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): VN055106.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN055106.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN055106.D (-2903) (-)

11.41

500000

400000

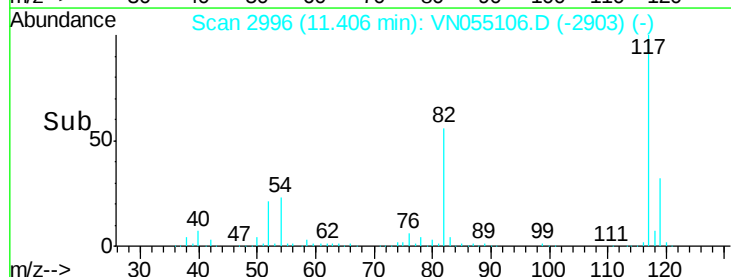
300000

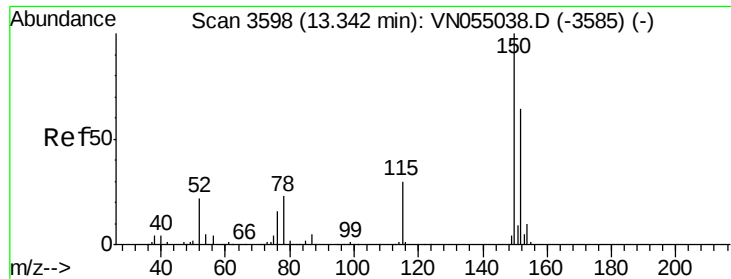
200000

100000

0

Time--> 11.30 11.40 11.50



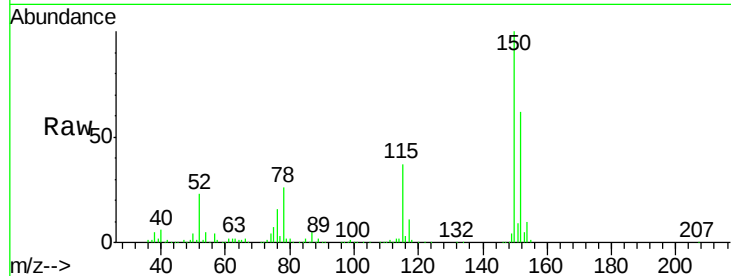


#72

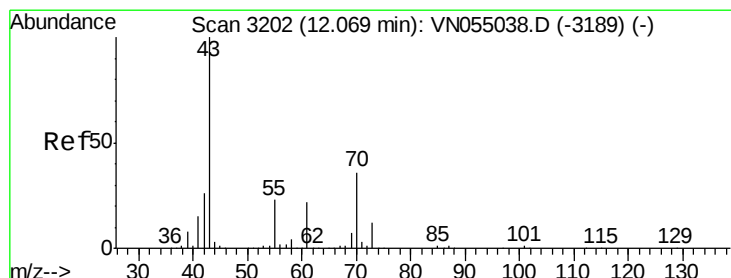
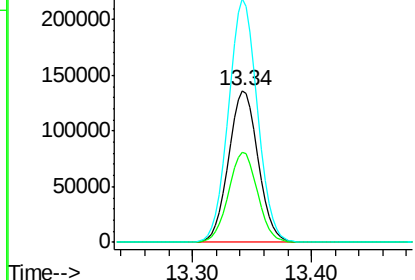
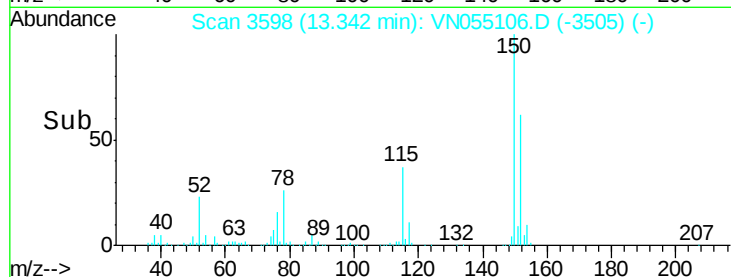
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN055106.D
Acq: 17 Apr 2019 15:17

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	58.6	28.5	85.6
150	157.4	0.0	347.2



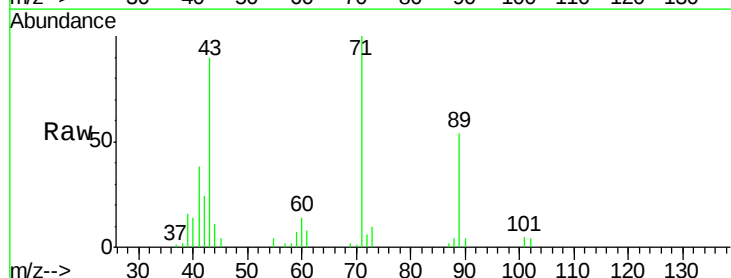
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



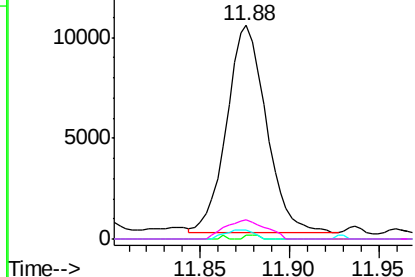
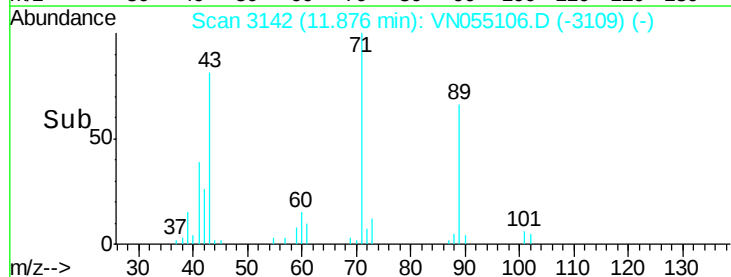
#74

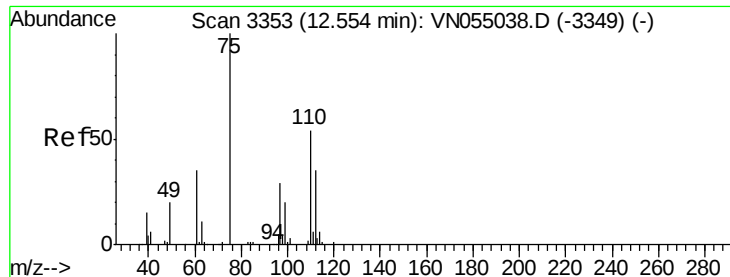
N-ethyl acetate
Concen: 2.727 ug/l
RT: 11.88 min Scan# 3142
Delta R.T. -0.19 min
Lab File: VN055106.D
Acq: 17 Apr 2019 15:17

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.6	29.4	44.0#
55	3.1	19.0	28.4#
61	9.4	17.7	26.5#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 70.00 (69.70 to 70.70): V
Ion 55.00 (54.70 to 55.70): V
Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 36.087 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055106.D

Acq: 17 Apr 2019 15:17

Instrument :

MSVOA_N

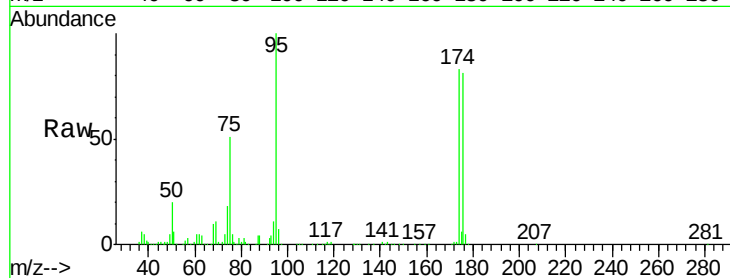
ClientSampleId :

Tot Ion: 75 Resp: 151836

Ion Ratio Lower Upper

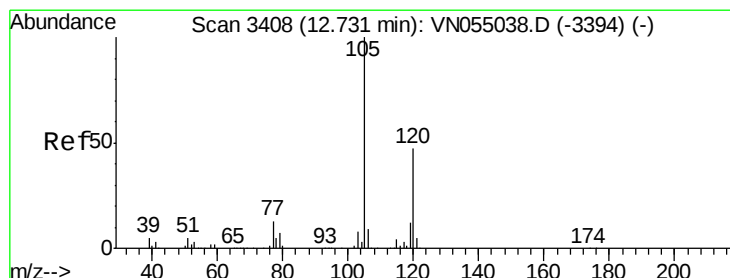
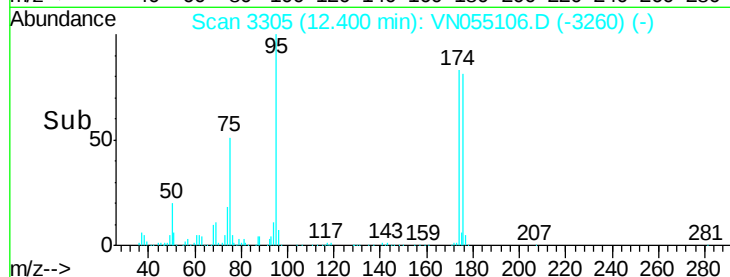
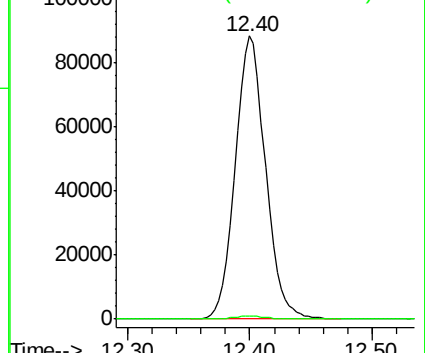
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN055106.D (-3260) (-)

Ion 77.00 (76.70 to 77.70): VN055106.D (-3260) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.316 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN055106.D

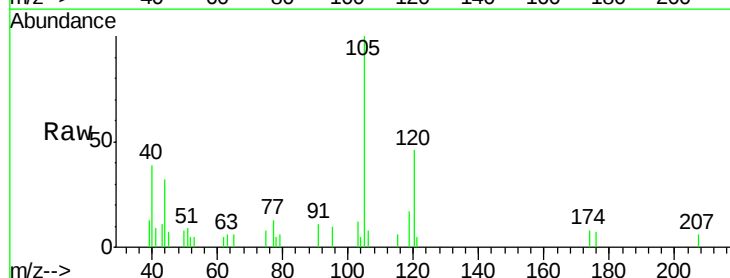
Acq: 17 Apr 2019 15:17

Tgt Ion:105 Resp: 5301

Ion Ratio Lower Upper

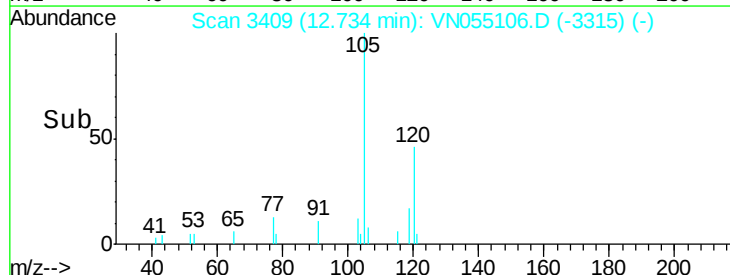
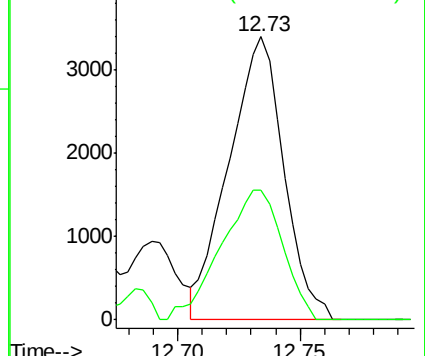
105 100

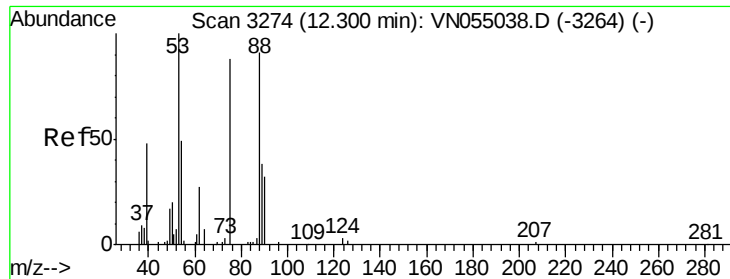
120 51.5 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): VN055106.D (-3315) (-)

Ion 120.00 (119.70 to 120.70): VN055106.D (-3315) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 144.307 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055106.D

Acq: 17 Apr 2019 15:17

Instrument :

MSVOA_N

ClientSampleId :

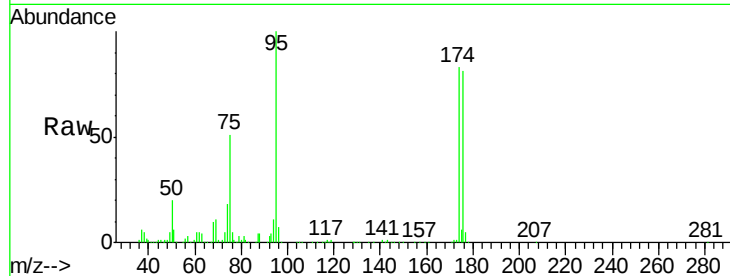
Tot Ion: 75 Resp: 151836

Ion Ratio Lower Upper

75 100

53 0.0 96.3 144.5#

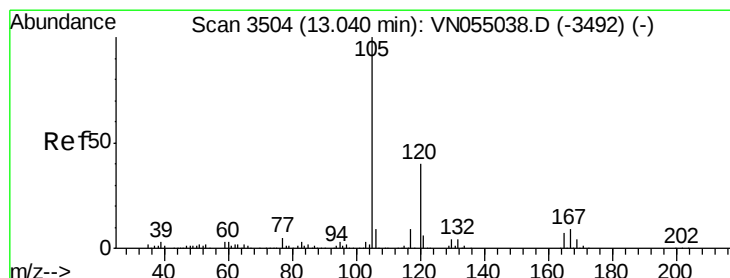
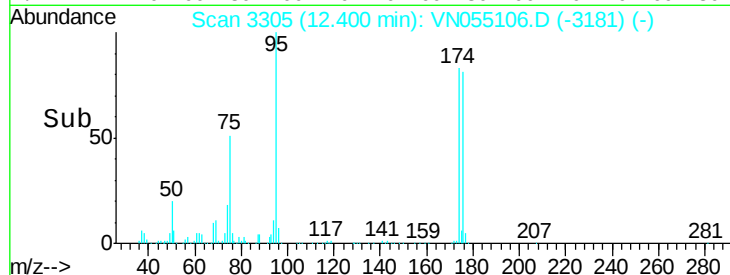
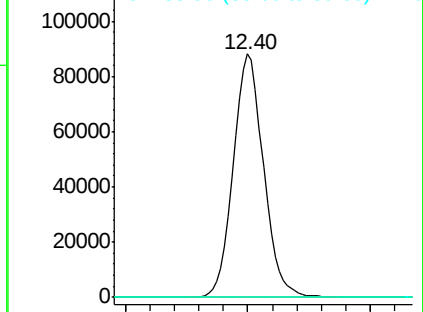
89 0.1 38.6 57.8#



Abundance Ion 74.90 (74.60 to 75.60): VN055106.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN055106.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN055106.D (-3181) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.346 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN055106.D

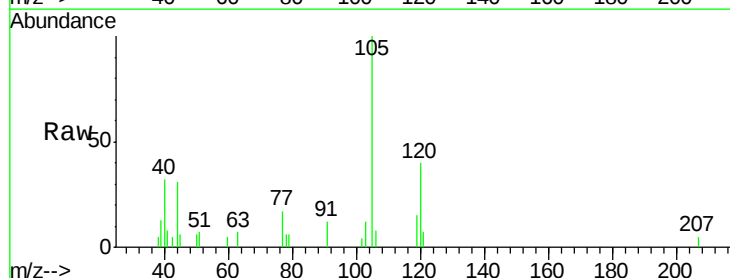
Acq: 17 Apr 2019 15:17

Tgt Ion: 105 Resp: 5492

Ion Ratio Lower Upper

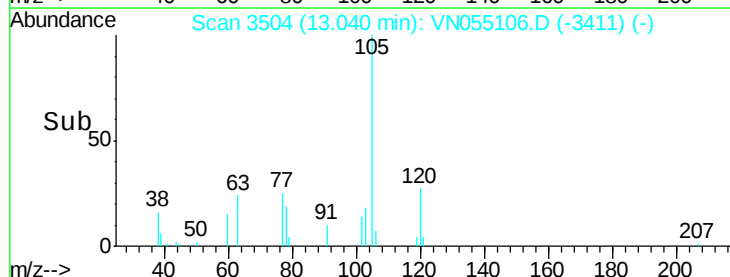
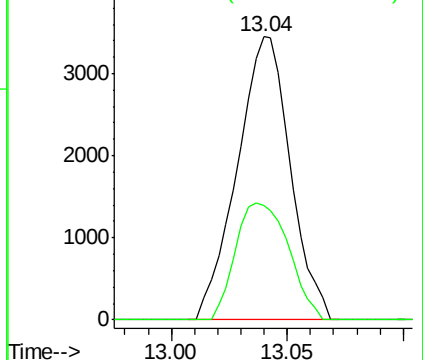
105 100

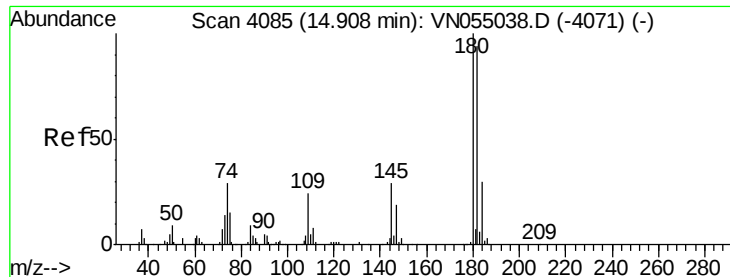
120 41.3 22.4 67.3



Abundance Ion 105.00 (104.70 to 105.70): VN055106.D (-3411) (-)

Ion 120.00 (119.70 to 120.70): VN055106.D (-3411) (-)

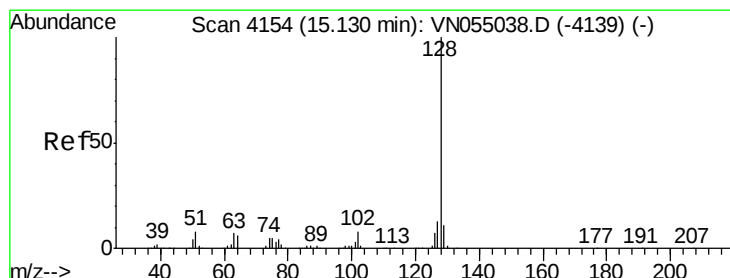
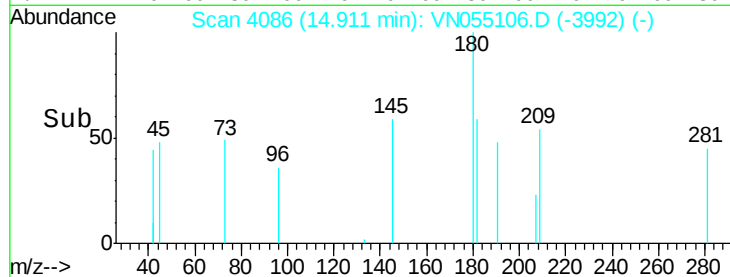
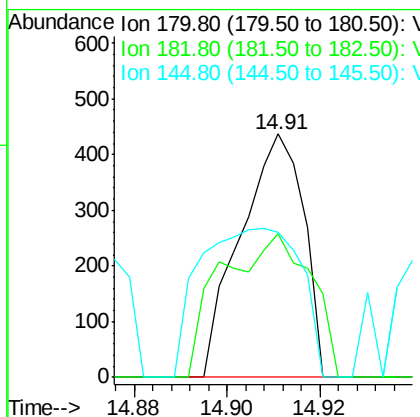
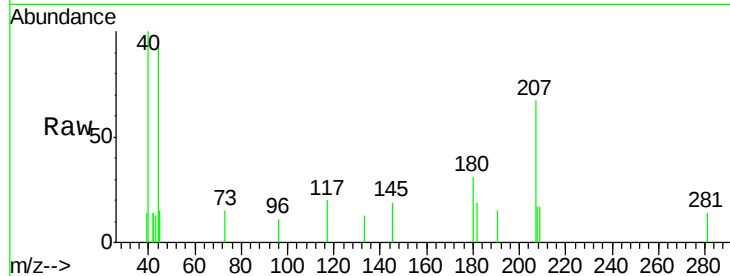




#93
 1,2,4-Trichlorobenzene
 Concen: 2.786 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN055106.D
 Acq: 17 Apr 2019 15:17

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 414
 Ion Ratio Lower Upper
 180 100
 182 83.6 47.5 142.6
 145 97.8 14.2 42.8#



#95
 Naphthalene
 Concen: 6.897 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN055106.D
 Acq: 17 Apr 2019 15:17

Tgt Ion:128 Resp: 34147
 Ion Ratio Lower Upper
 128 100
 127 13.2 10.1 15.1
 129 11.1 8.8 13.2

