

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100418\
 Data File : VN051669.D
 Acq On : 4 Oct 2018 17:29
 Operator : MD\SY
 Sample : PB113487ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 05 06:45:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N100418W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 05 02:22:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	633175	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	914639	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	792830	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	278038	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	388981	46.50	ug/l	0.00
Spiked Amount			Recovery	=	93.00%	
35) Dibromofluoromethane	7.59	113	343171	48.53	ug/l	0.00
Spiked Amount			Recovery	=	97.06%	
50) Toluene-d8	10.09	98	1292622	49.00	ug/l	0.00
Spiked Amount			Recovery	=	98.00%	
62) 4-Bromofluorobenzene	12.40	95	359317	38.48	ug/l	0.00
Spiked Amount			Recovery	=	76.96%	

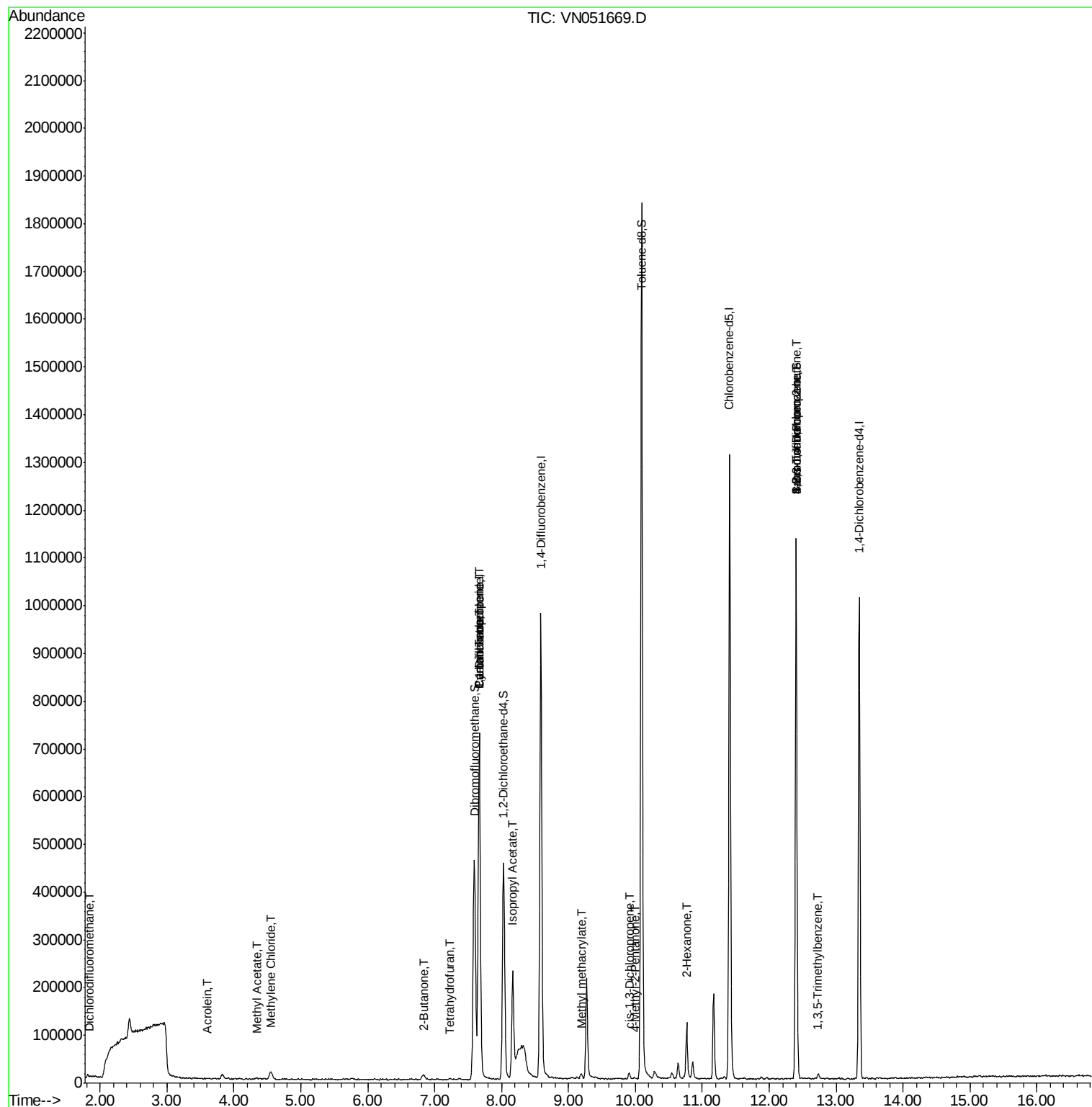
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.84	85	129	1.165	ug/l #	42
7) Trichlorofluoromethane	3.00	101	34	Below Cal	#	10
13) Acrolein	3.61	56	142	0.400	ug/l #	14
16) Acetone	3.82	43	15813	Below Cal		93
18) Methyl Acetate	4.34	43	7086	1.535	ug/l	93
20) Methylene Chloride	4.55	84	11347	1.649	ug/l #	96
25) 2-Butanone	6.84	43	1386	0.574	ug/l	94
29) Tetrahydrofuran	7.22	42	340	0.229	ug/l #	1
31) Cyclohexane	7.66	56	13520	1.191	ug/l #	53
36) 1,1-Dichloropropene	7.67	75	43129	4.511	ug/l #	50
38) Carbon Tetrachloride	7.67	117	56491	4.924	ug/l #	15
41) Methacrylonitrile	7.17	41	134	Below Cal	#	45
43) Isopropyl Acetate	8.17	43	283214	27.243	ug/l	96
48) Methyl methacrylate	9.19	41	4801	1.011	ug/l #	19
51) 4-Methyl-2-Pentanone	9.99	43	2108	0.400	ug/l	89
54) cis-1,3-Dichloropropene	9.91	75	2422	0.206	ug/l #	65
59) 2-Hexanone	10.77	43	18450	5.157	ug/l #	51
71) Bromoform	12.40	173	3032	0.518	ug/l #	1
74) N-amyl acetate	12.08	43	851	Below Cal	#	69
75) 1,1,2,2-Tetrachloroethane	12.51	83	391	Below Cal	#	49
76) 1,2,3-Trichloropropane	12.40	75	197868	57.925	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4904	0.246	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.40	75	197868	130.817	ug/l #	14

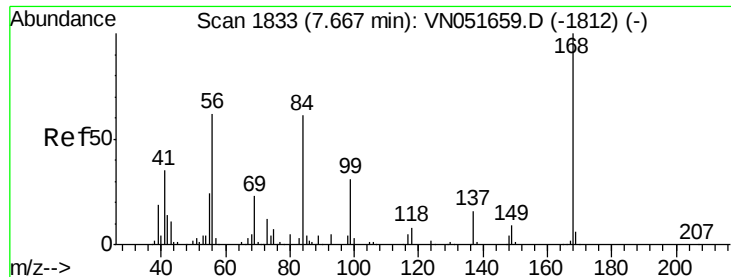
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN100418\
Data File : VN051669.D
Acq On : 4 Oct 2018 17:29
Operator : MD\SY
Sample : PB113487ZHE#01
Misc : 5.00mL/MSVOA N/WATER
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MSVOA_N
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N100418W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 05 02:22:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051669.D

Acq: 4 Oct 2018 17:29

Instrument :

MSVOA_N

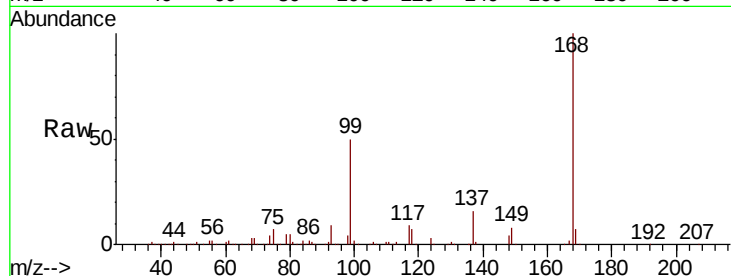
ClientSampleId :

Tot Ion:168 Resp: 633175

Ion Ratio Lower Upper

168 100

99 49.7 40.4 60.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

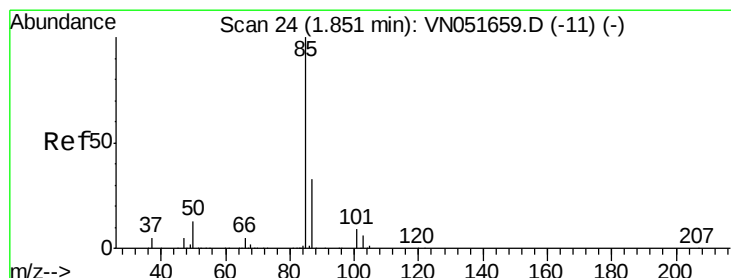
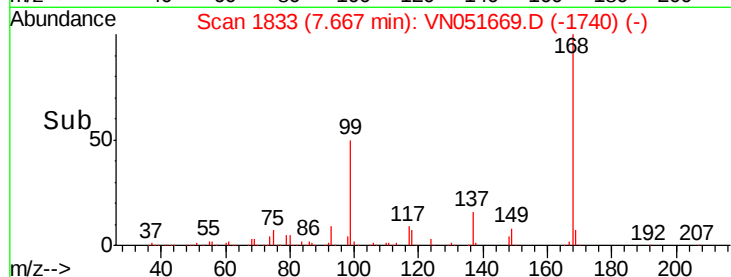
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 1.165 ug/l

RT: 1.84 min Scan# 22

Delta R.T. -0.01 min

Lab File: VN051669.D

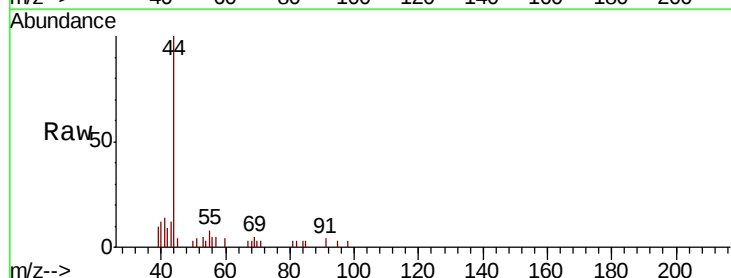
Acq: 4 Oct 2018 17:29

Tgt Ion: 85 Resp: 129

Ion Ratio Lower Upper

85 100

87 0.0 16.4 49.4#



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.84

200

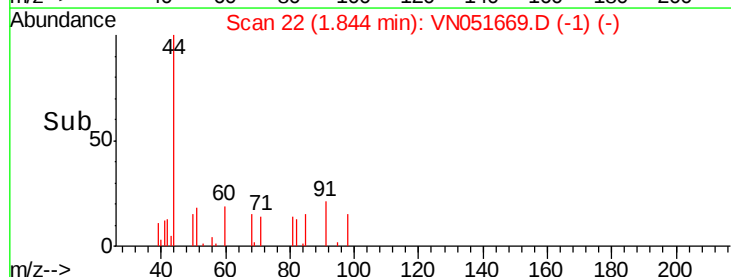
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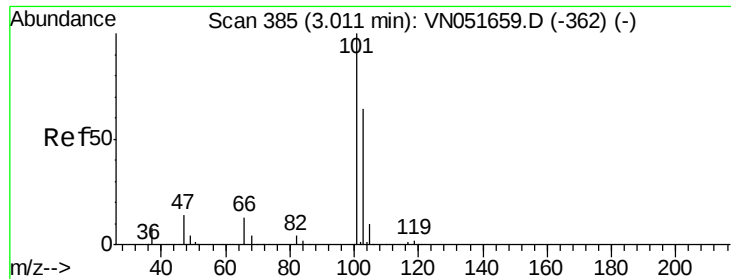
100

50

0

Time-->



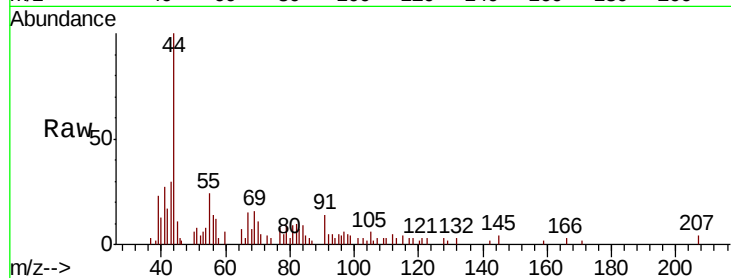


#7

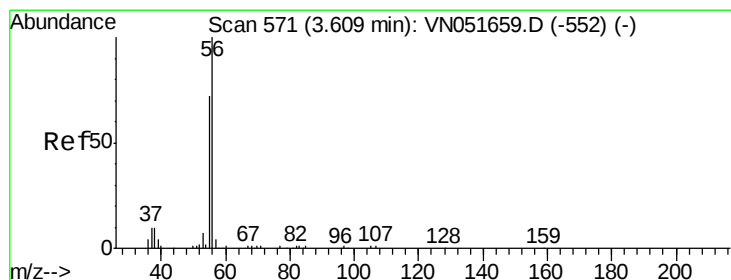
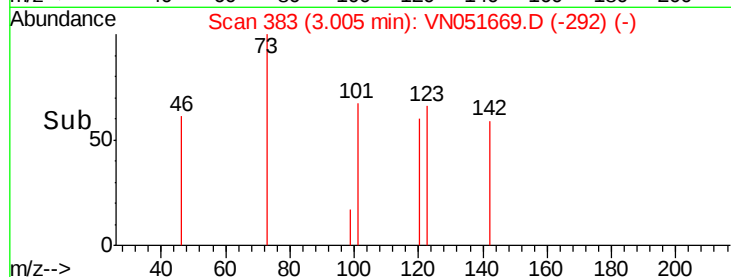
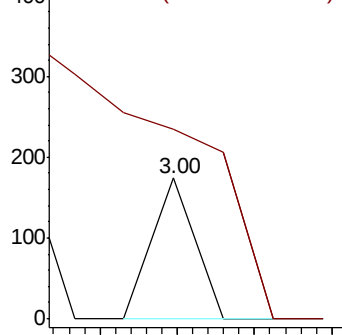
Trichlorofluoromethane
 Concen: Below Cal
 RT: 3.00 min Scan# 383
 Delta R.T. -0.01 min
 Lab File: VN051669.D
 Acq: 4 Oct 2018 17:29

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:101 Resp: 34
 Ion Ratio Lower Upper
 101 100
 103 134.5 51.1 76.7#



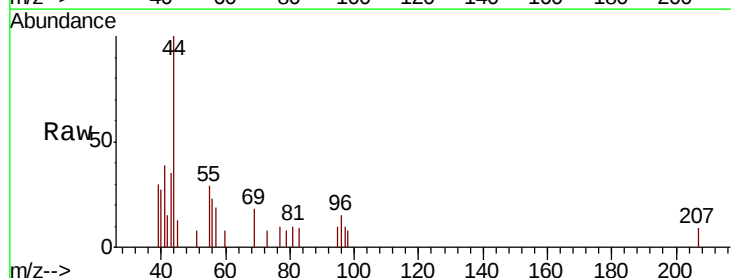
Abundance Ion 100.90 (100.60 to 101.60): V
 Ion 102.80 (102.50 to 103.50): V



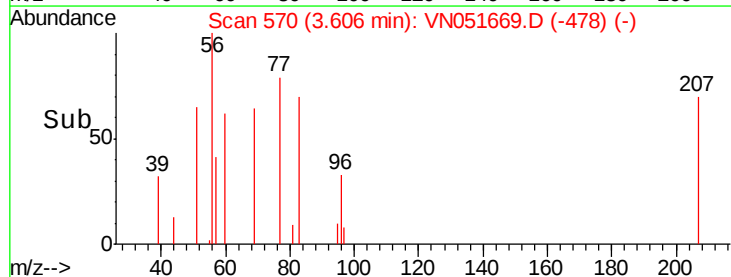
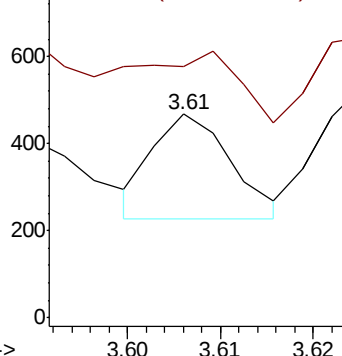
#13

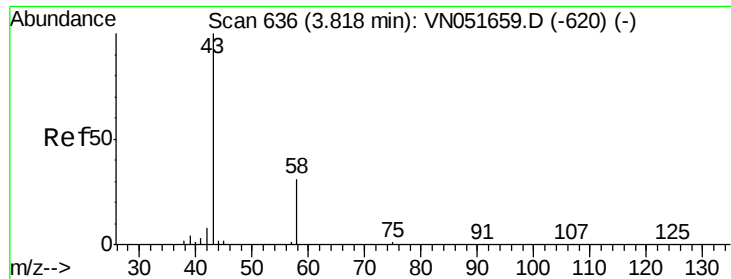
Acrolein
 Concen: 0.400 ug/l
 RT: 3.61 min Scan# 570
 Delta R.T. -0.00 min
 Lab File: VN051669.D
 Acq: 4 Oct 2018 17:29

Tgt Ion: 56 Resp: 142
 Ion Ratio Lower Upper
 56 100
 55 0.0 57.5 86.3#



Abundance Ion 56.00 (55.70 to 56.70): VNO
 Ion 55.00 (54.70 to 55.70): VNO





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN051669.D

Acq: 4 Oct 2018 17:29

Instrument :

MSVOA_N

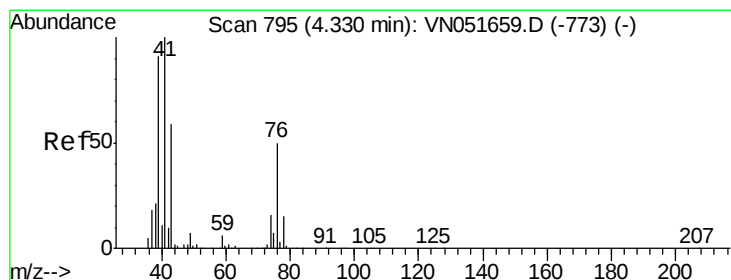
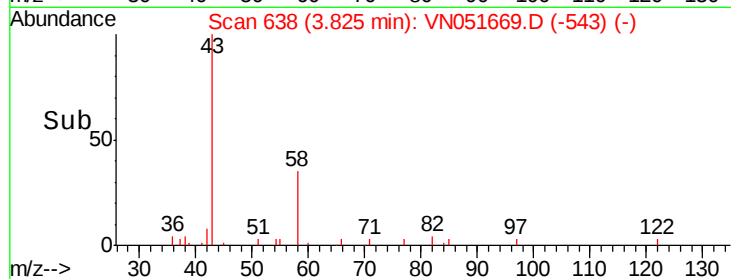
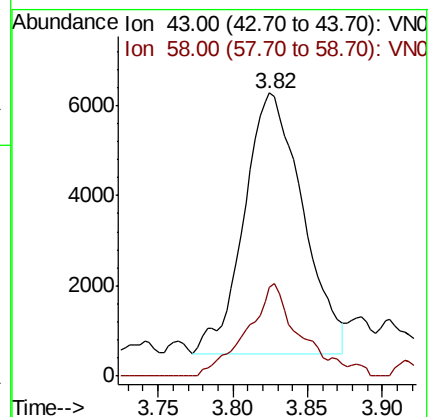
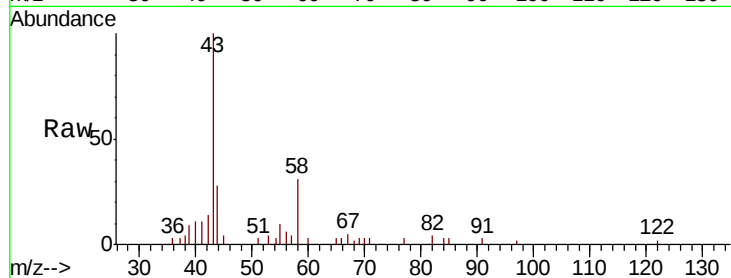
ClientSampleId :

Tot Ion: 43 Resp: 15813

Ion Ratio Lower Upper

43 100

58 34.0 24.3 36.5



#18

Methyl Acetate

Concen: 1.535 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN051669.D

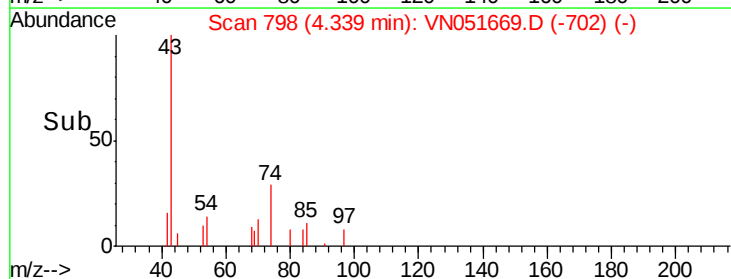
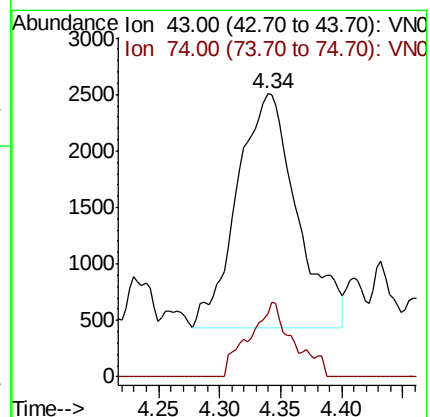
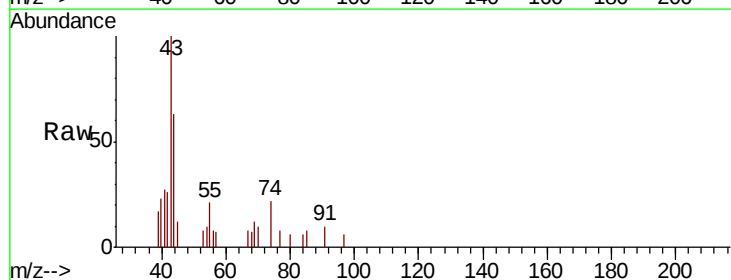
Acq: 4 Oct 2018 17:29

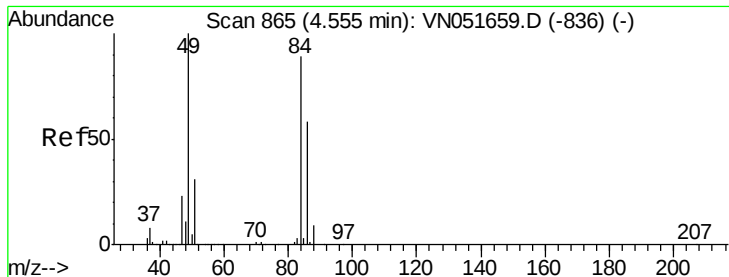
Tgt Ion: 43 Resp: 7086

Ion Ratio Lower Upper

43 100

74 23.3 21.5 32.3

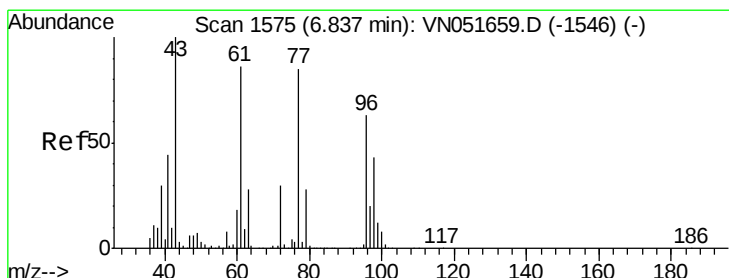
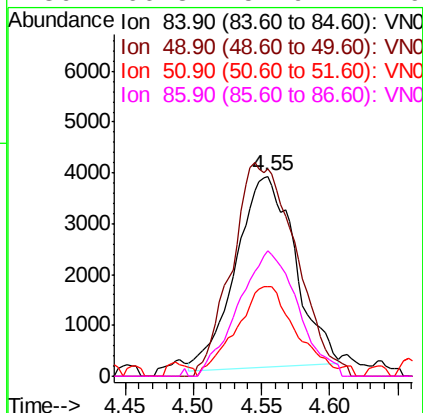
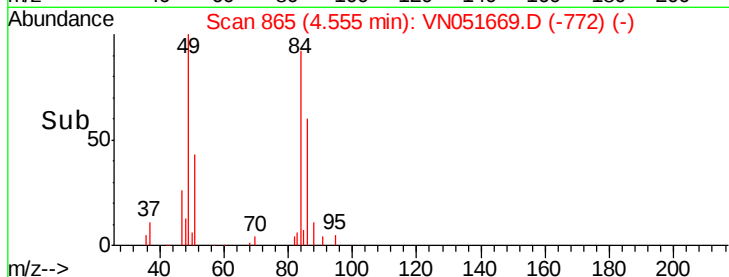
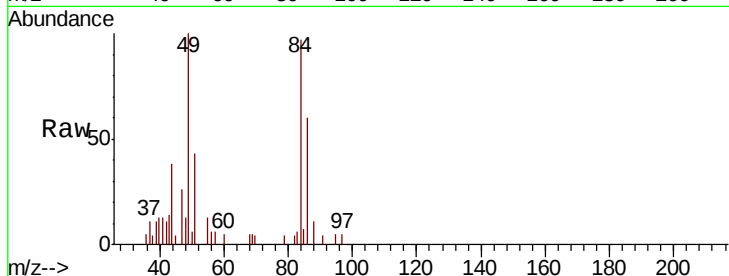




#20
Methvlene Chloride
Concen: 1.649 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN051669.D
Acq: 4 Oct 2018 17:29

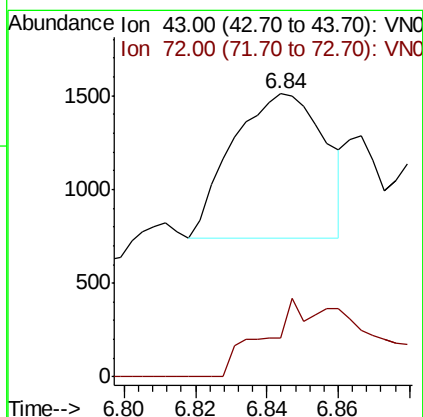
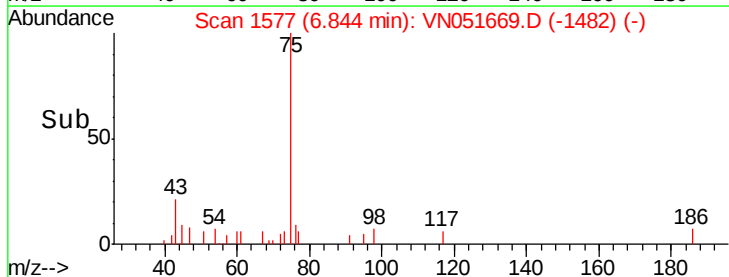
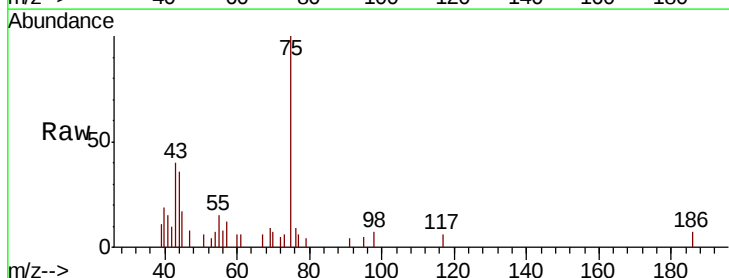
Instrument :
MSVOA_N
ClientSampleId :

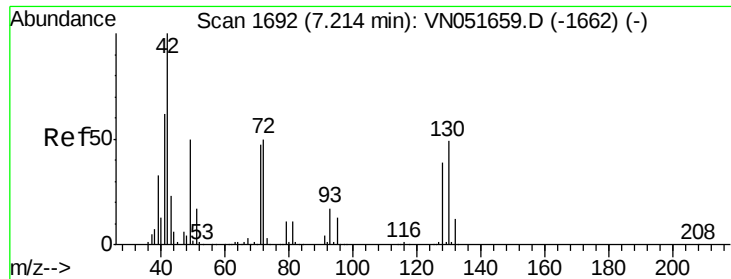
Tot Ion: 84 Resp: 11347
Ion Ratio Lower Upper
84 100
49 110.4 89.5 134.3
51 43.5 27.4 41.0#
86 66.8 51.9 77.9



#25
2-Butanone
Concen: 0.574 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN051669.D
Acq: 4 Oct 2018 17:29

Tgt Ion: 43 Resp: 1386
Ion Ratio Lower Upper
43 100
72 26.7 24.2 36.2

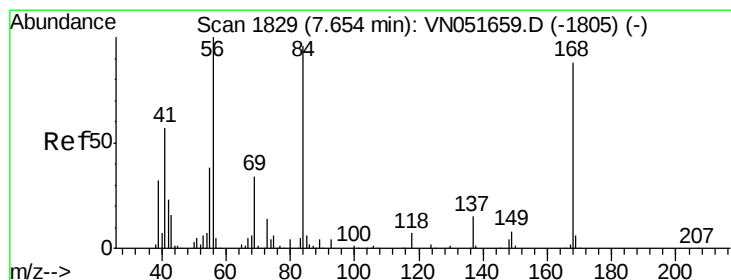
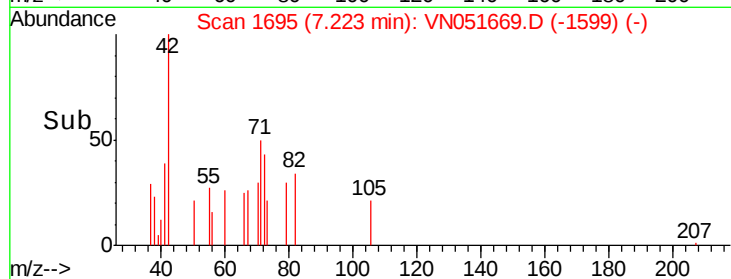
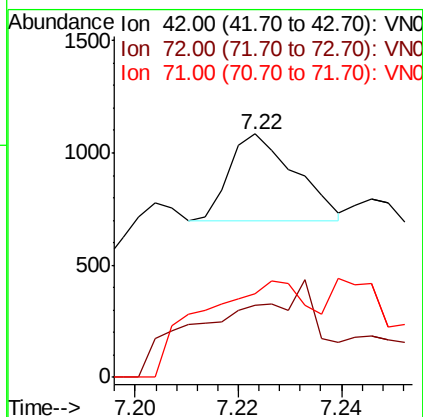
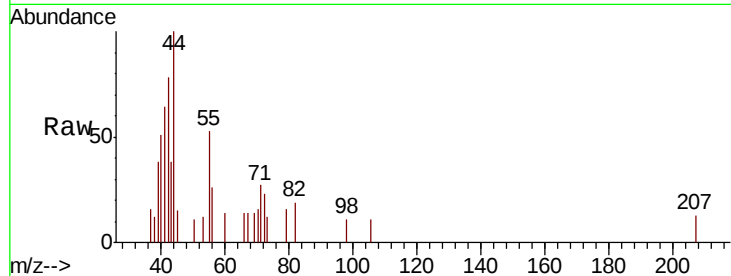




#29
Tetrahydrofuran
Concen: 0.229 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.01 min
Lab File: VN051669.D
Acq: 4 Oct 2018 17:29

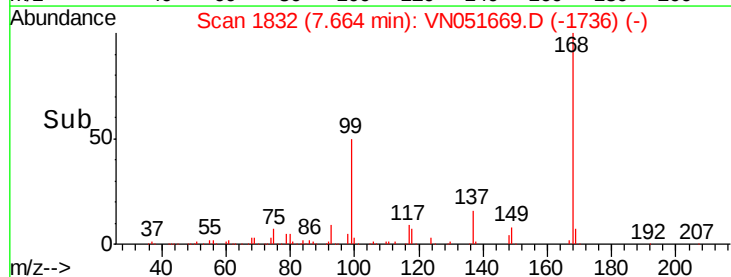
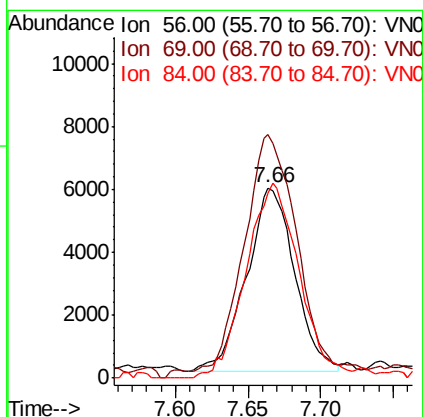
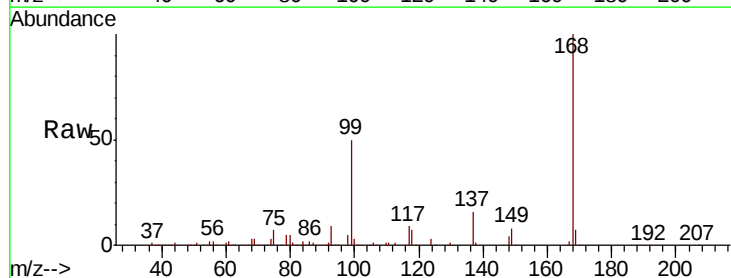
Instrument :
MSVOA_N
ClientSampled :

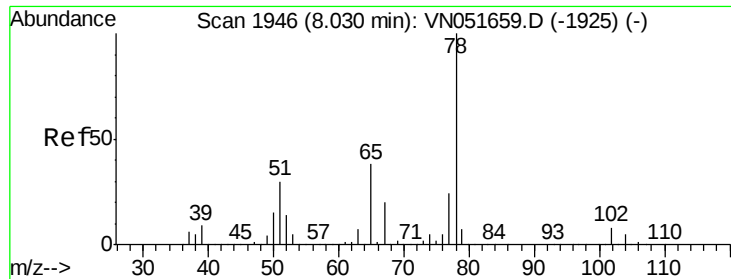
Tot Ion: 42 Resp: 340
Ion Ratio Lower Upper
42 100
72 0.0 40.1 60.1#
71 187.9 38.0 57.0#



#31
Cyclohexane
Concen: 1.191 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN051669.D
Acq: 4 Oct 2018 17:29

Tgt Ion: 56 Resp: 13520
Ion Ratio Lower Upper
56 100
69 128.8 27.5 41.3#
84 100.5 76.7 115.1

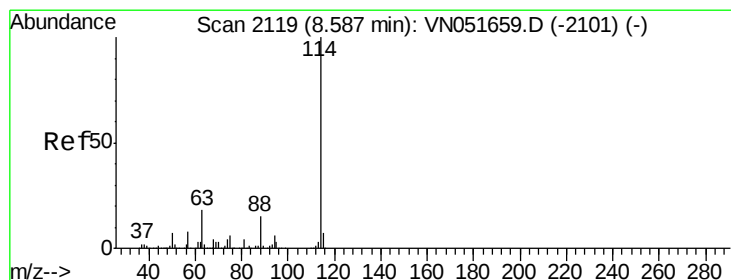
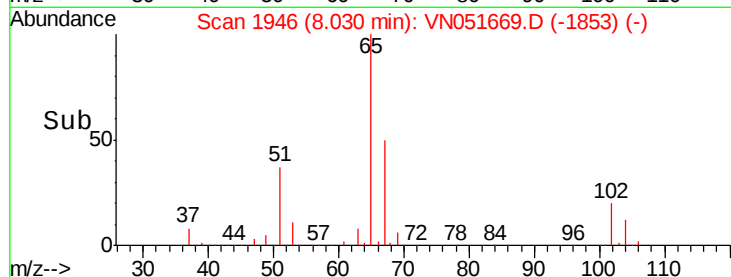
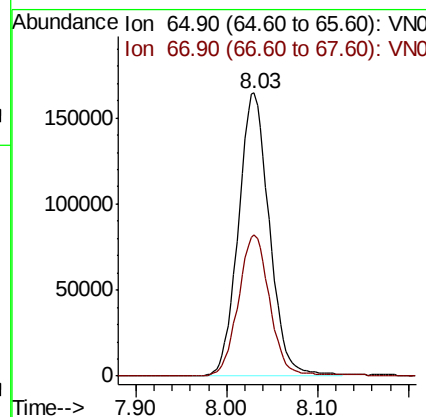
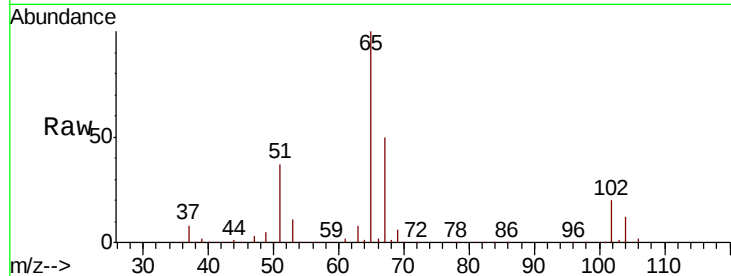




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. -0.00 min
 Lab File: VN051669.D
 Acq: 4 Oct 2018 17:29

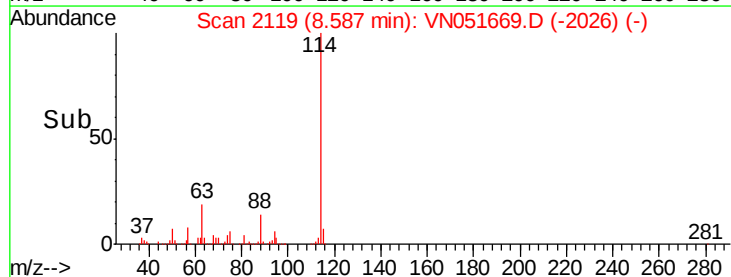
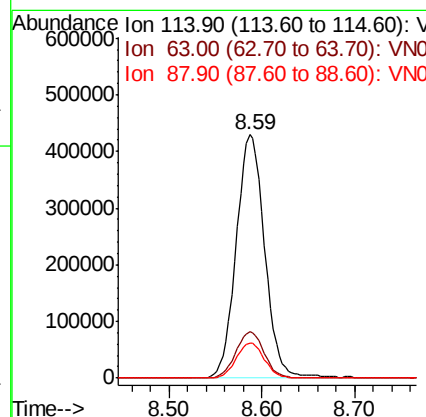
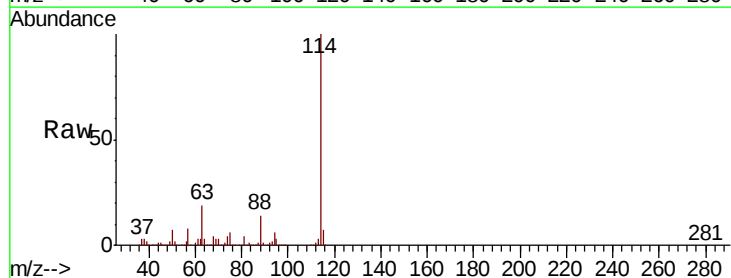
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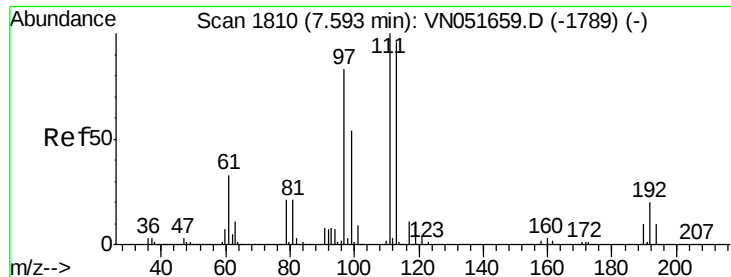
Tot Ion: 65 Resp: 388981
 Ion Ratio Lower Upper
 65 100
 67 50.4 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051669.D
 Acq: 4 Oct 2018 17:29

Tgt Ion: 114 Resp: 914639
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 36.2
 88 14.5 0.0 30.2

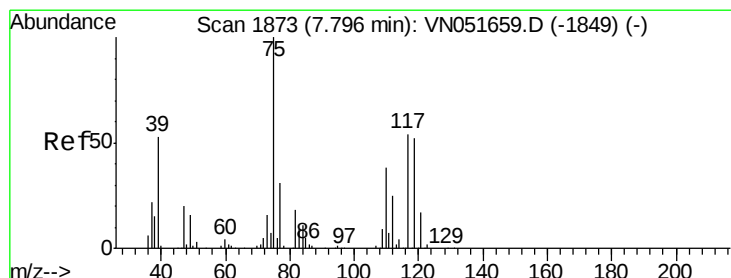
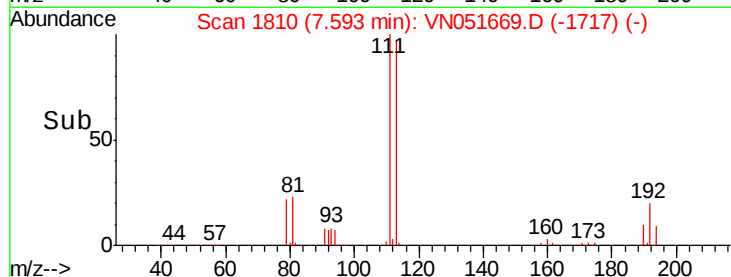
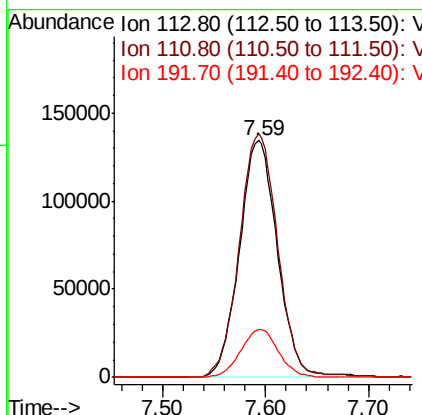
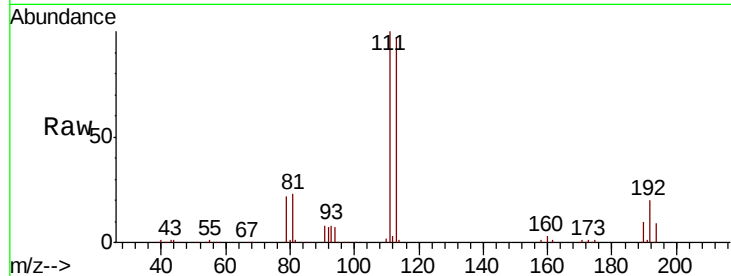




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051669.D
 Acq: 4 Oct 2018 17:29

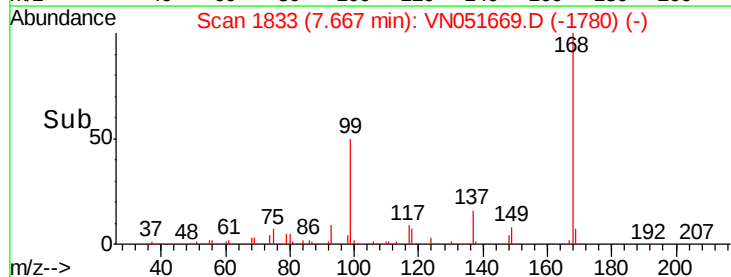
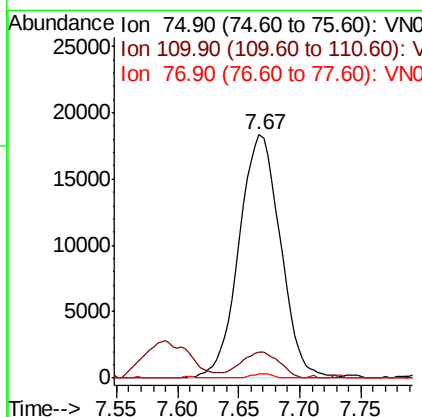
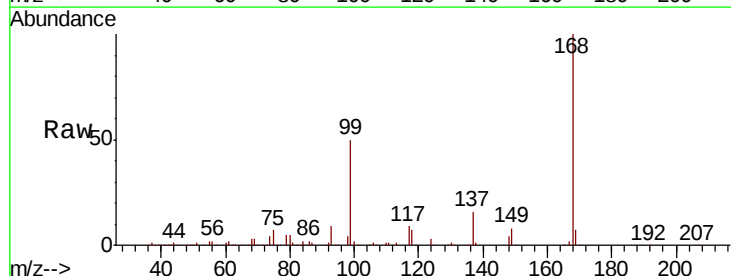
Instrument :
 MSVOA_N
 ClientSampleId :

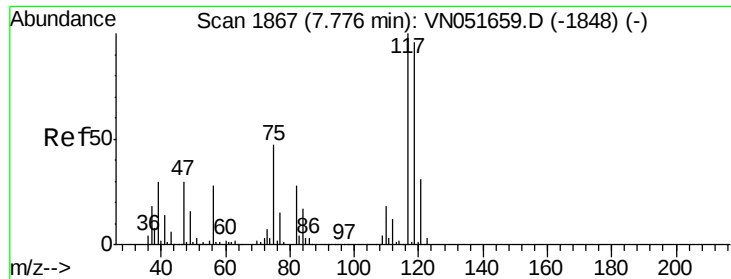
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.3	81.8	122.8
192	20.3	16.5	24.7



#36
 1,1-Dichloropropene
 Concen: 4.511 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051669.D
 Acq: 4 Oct 2018 17:29

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.1	19.3	57.8#
77	0.8	24.7	37.1#





#38

Carbon Tetrachloride

Concen: 4.924 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051669.D

Acq: 4 Oct 2018 17:29

Instrument :
MSVOA_N
ClientSampled :

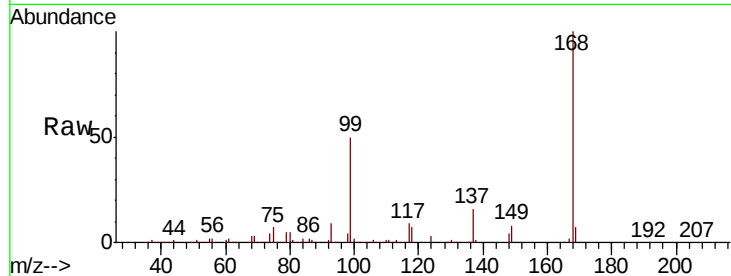
Tot Ion:117 Resp: 56491

Ion Ratio Lower Upper

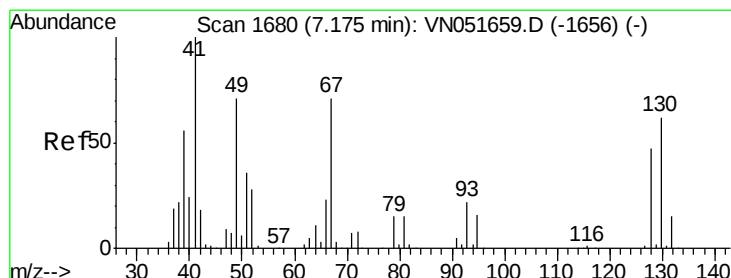
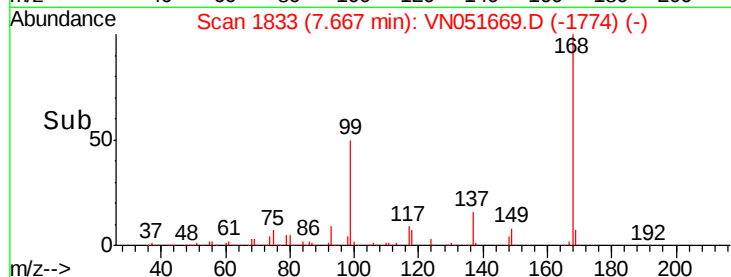
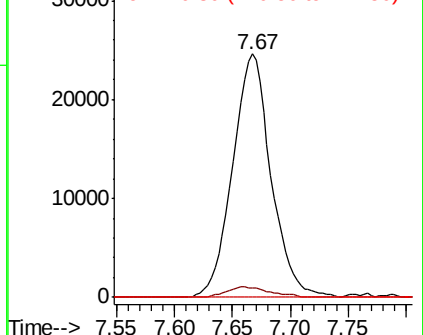
117 100

119 3.8 77.0 115.6#

121 0.0 25.0 37.6#



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



#41

Methacrylonitrile

Concen: Below Cal

RT: 7.17 min Scan# 1678

Delta R.T. -0.01 min

Lab File: VN051669.D

Acq: 4 Oct 2018 17:29

Tgt Ion: 41 Resp: 134

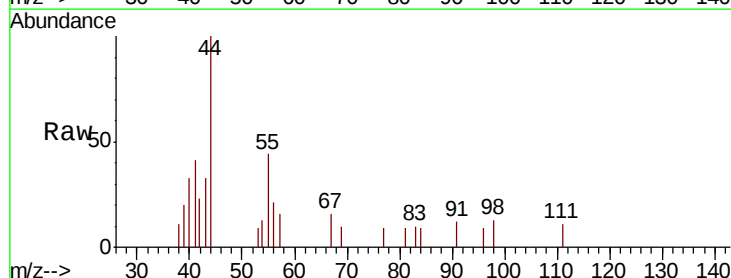
Ion Ratio Lower Upper

41 100

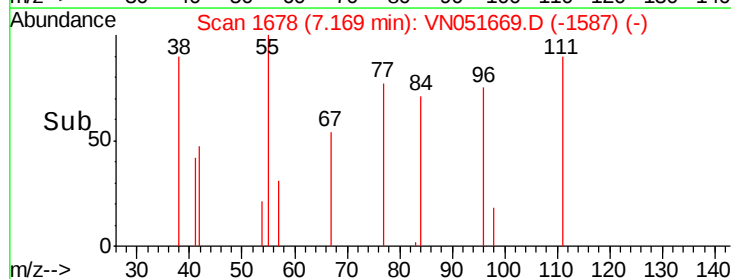
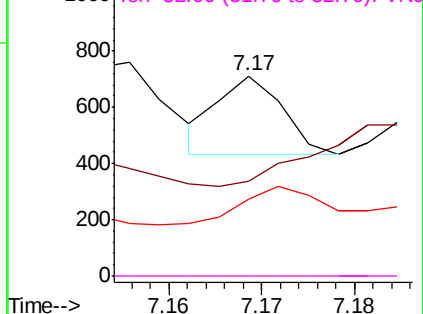
39 0.0 53.9 80.9#

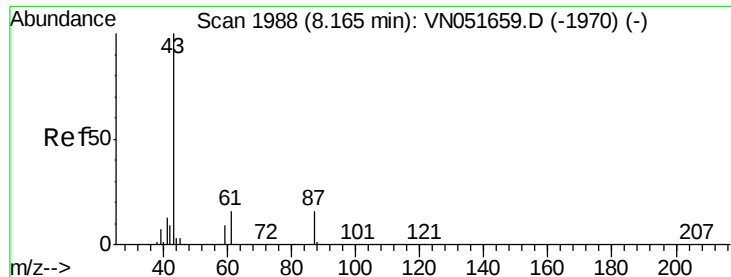
67 66.4 78.1 117.1#

52 0.0 32.3 48.5#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 27.243 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VN051669.D

Acq: 4 Oct 2018 17:29

Instrument :

MSVOA_N

ClientSampleId :

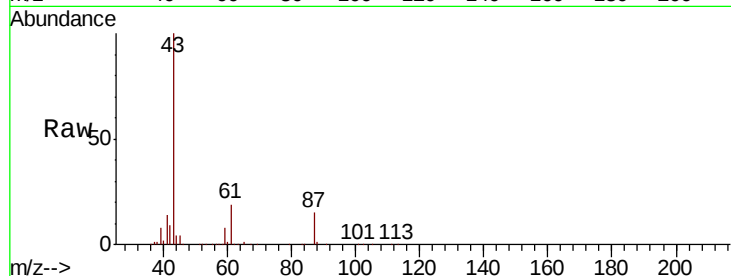
Tot Ion: 43 Resp: 283214

Ion Ratio Lower Upper

43 100

61 17.8 15.8 23.6

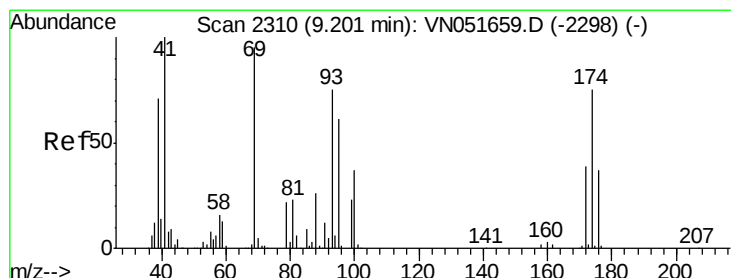
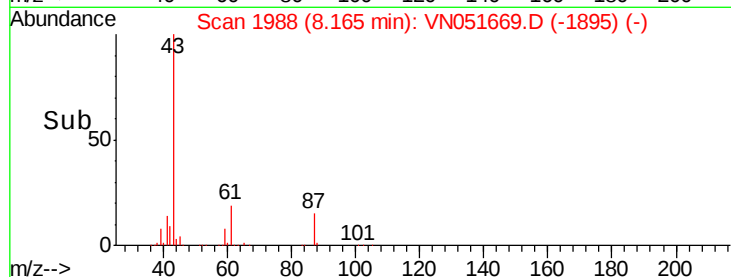
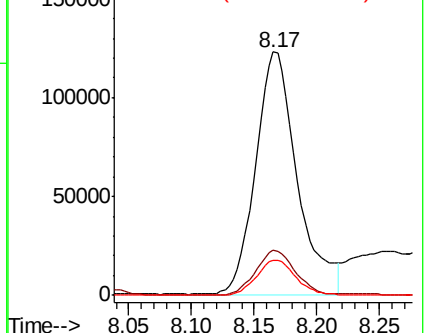
87 13.8 12.6 19.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#48

Methyl methacrylate

Concen: 1.011 ug/l

RT: 9.19 min Scan# 2306

Delta R.T. -0.01 min

Lab File: VN051669.D

Acq: 4 Oct 2018 17:29

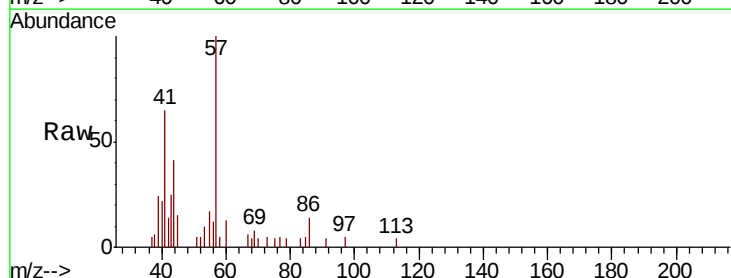
Tgt Ion: 41 Resp: 4801

Ion Ratio Lower Upper

41 100

69 1.9 78.6 118.0#

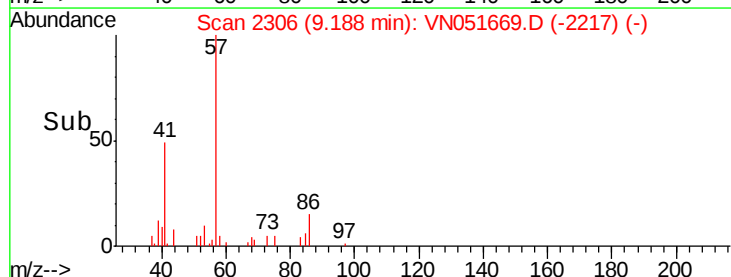
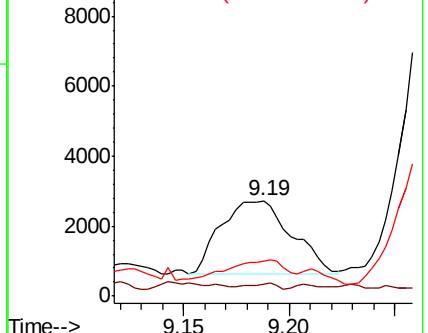
39 22.9 59.2 88.8#

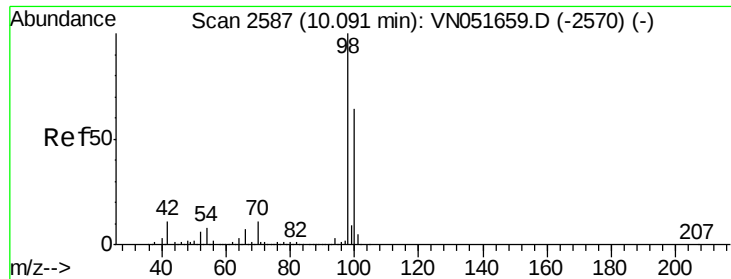


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051669.D

Acq: 4 Oct 2018 17:29

Instrument :

MSVOA_N

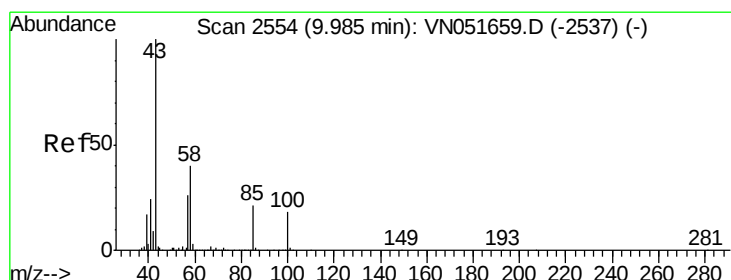
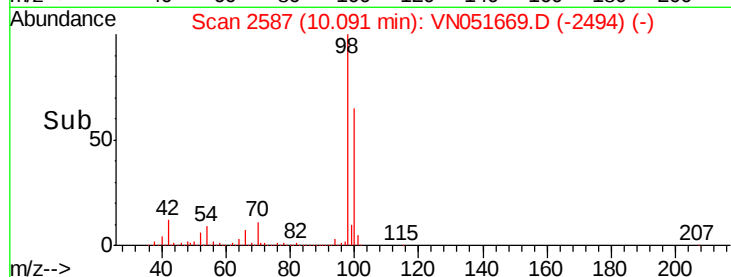
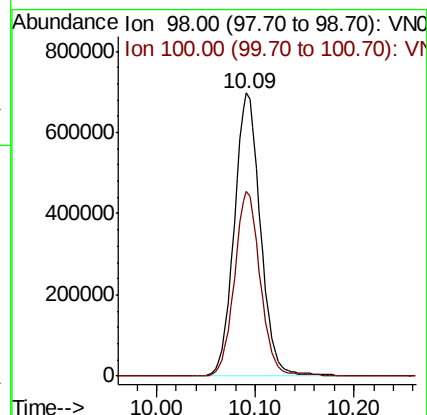
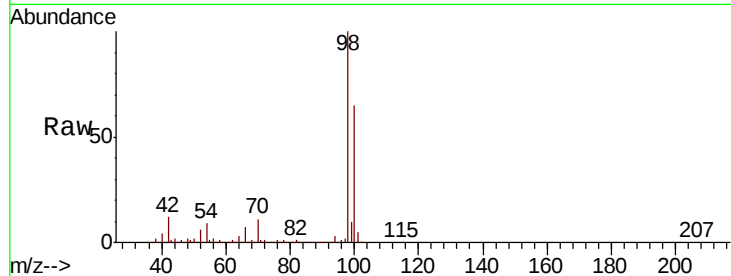
ClientSampled :

Tot Ion: 98 Resp: 1292622

Ion Ratio Lower Upper

98 100

100 64.4 51.5 77.3



#51

4-Methyl-2-Pentanone

Concen: 0.400 ug/l

RT: 9.99 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN051669.D

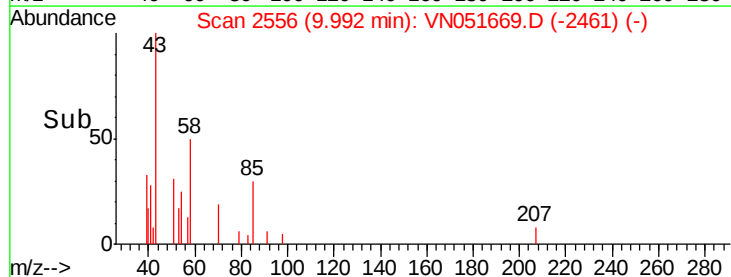
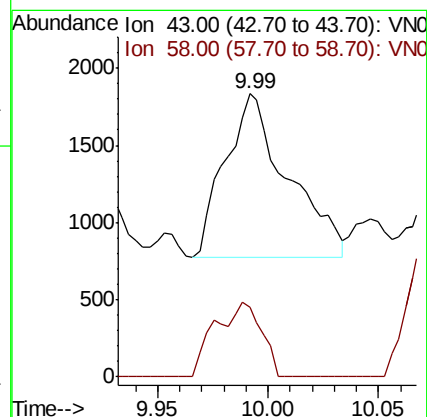
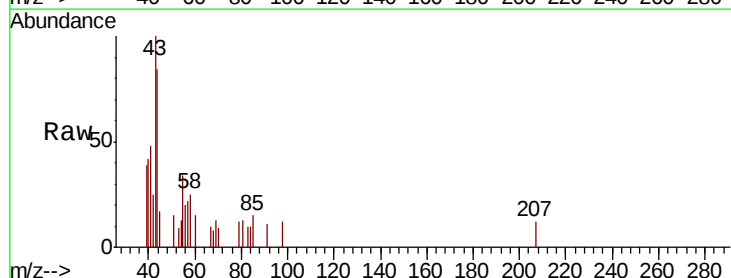
Acq: 4 Oct 2018 17:29

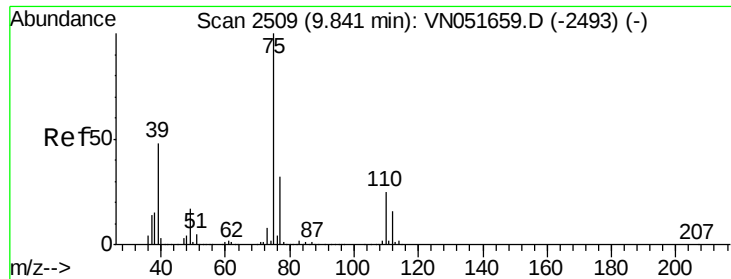
Tgt Ion: 43 Resp: 2108

Ion Ratio Lower Upper

43 100

58 33.4 32.2 48.2



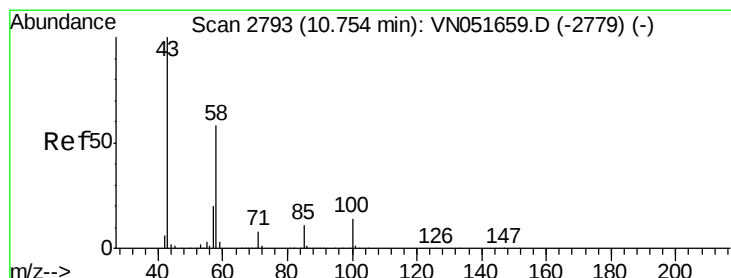
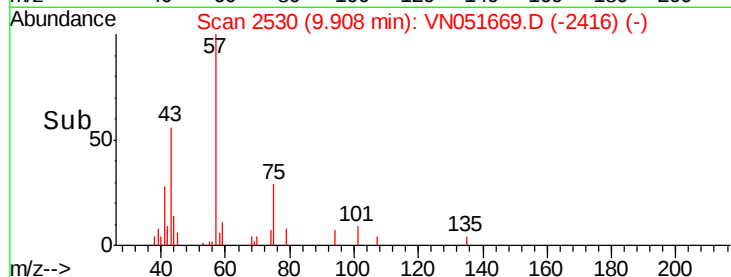
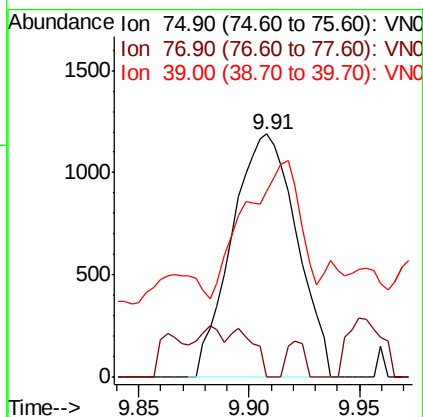
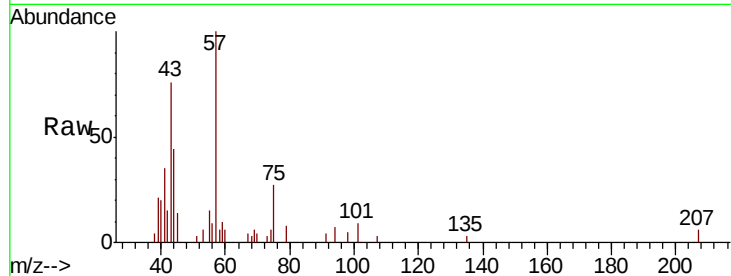


#54

cis-1,3-Dichloropropene
 Concen: 0.206 ug/l
 RT: 9.91 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN051669.D
 Acq: 4 Oct 2018 17:29

Instrument :
 MSVOA_N
 ClientSampled :

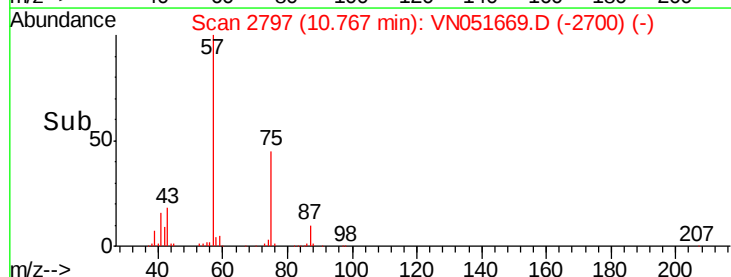
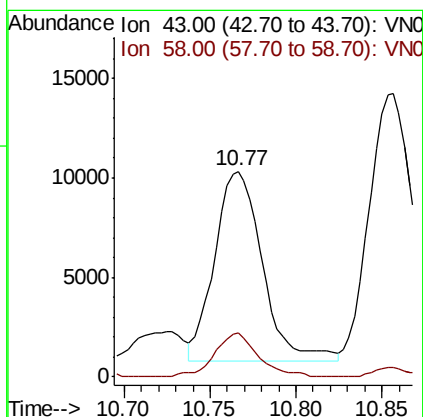
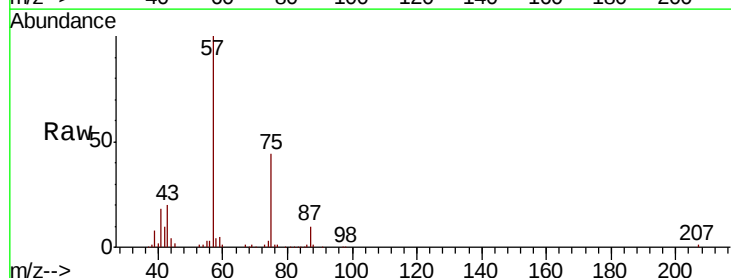
Tot Ion: 75 Resp: 2422
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.7 38.5#
 39 34.8 38.1 57.1#

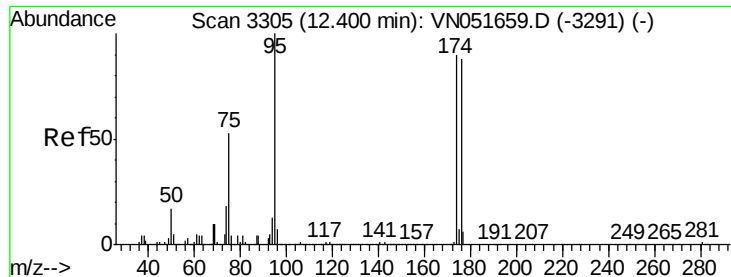


#59

2-Hexanone
 Concen: 5.157 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: VN051669.D
 Acq: 4 Oct 2018 17:29

Tgt Ion: 43 Resp: 18450
 Ion Ratio Lower Upper
 43 100
 58 21.1 28.8 86.4#





#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051669.D

Acq: 4 Oct 2018 17:29

Instrument :

MSVOA_N

ClientSampled :

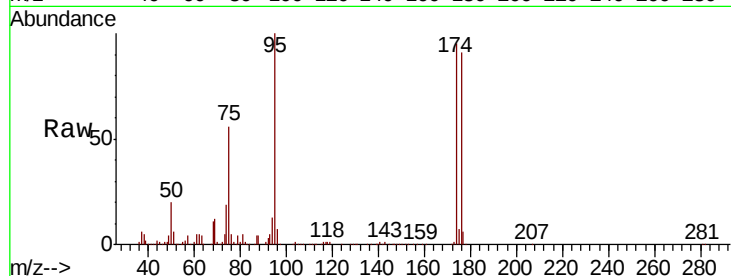
Tot Ion: 95 Resp: 359317

Ion Ratio Lower Upper

95 100

174 94.5 0.0 182.8

176 89.7 0.0 176.4

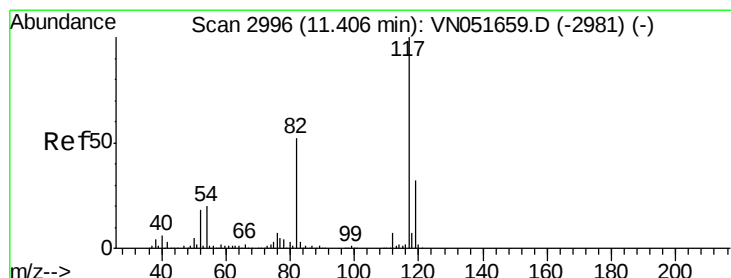
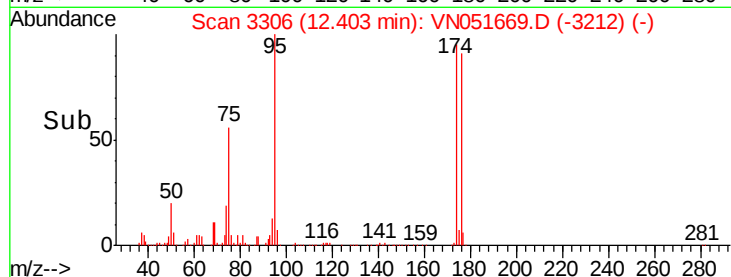
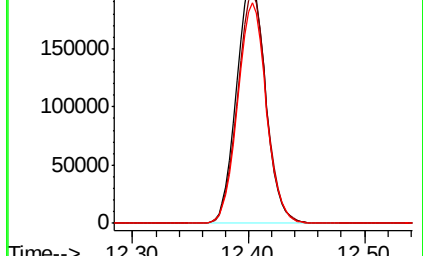


Abundance Ion 94.90 (94.60 to 95.60): VN051659.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN051659.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN051659.D (-3291) (-)

12.40



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN051669.D

Acq: 4 Oct 2018 17:29

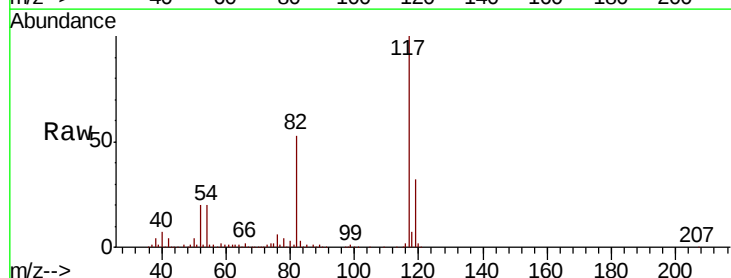
Tgt Ion: 117 Resp: 792830

Ion Ratio Lower Upper

117 100

82 53.3 41.3 61.9

119 31.8 25.9 38.9

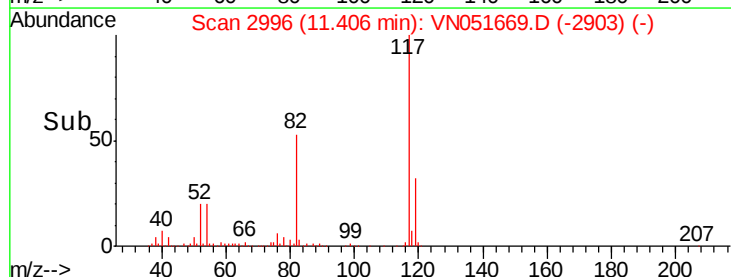
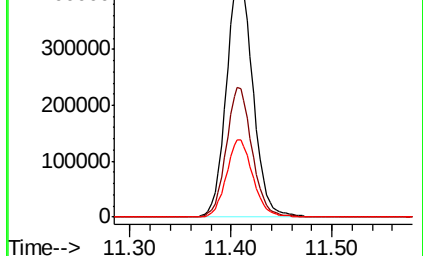


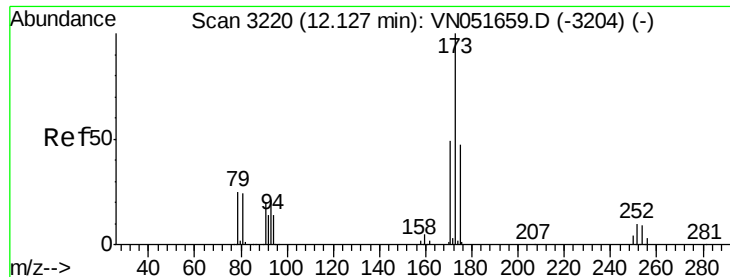
Abundance Ion 116.90 (116.60 to 117.60): VN051659.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN051659.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN051659.D (-2981) (-)

11.41

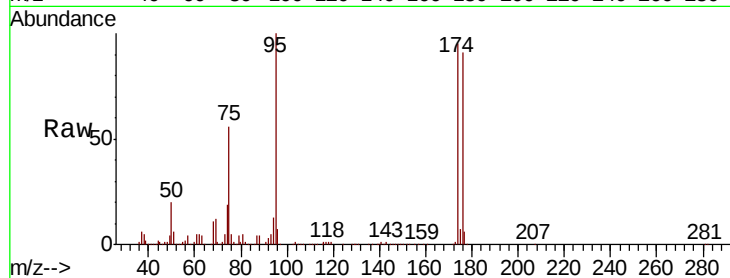




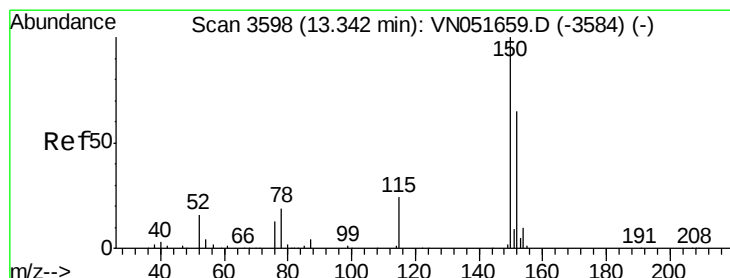
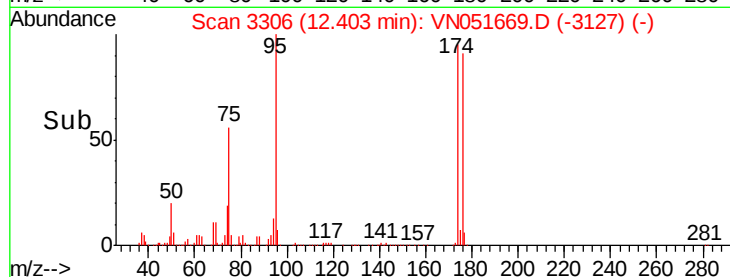
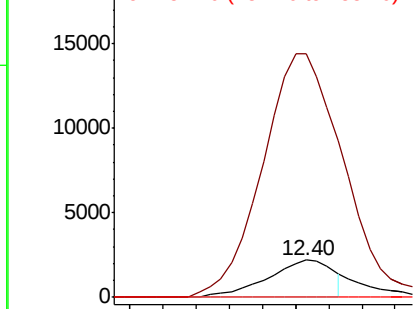
#71
Bromoform
Concen: 0.518 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN051669.D
Acq: 4 Oct 2018 17:29

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:173 Resp: 3032
Ion Ratio Lower Upper
173 100
175 683.0 24.0 72.0#
254 0.0 0.1 0.1#

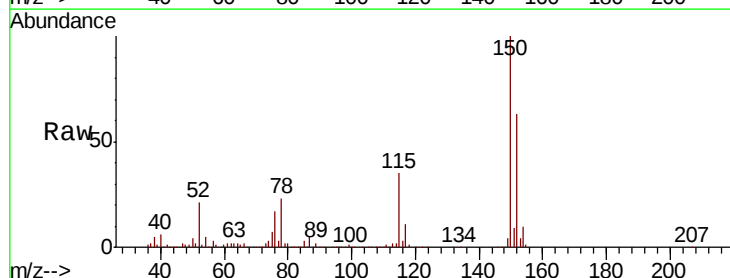


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

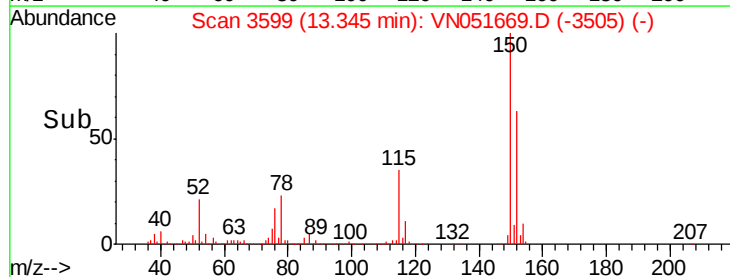
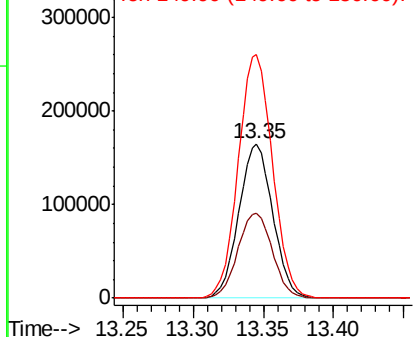


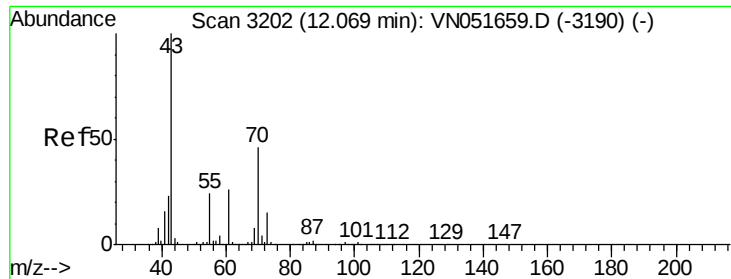
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051669.D
Acq: 4 Oct 2018 17:29

Tgt Ion:152 Resp: 278038
Ion Ratio Lower Upper
152 100
115 56.2 28.6 85.8
150 159.7 0.0 352.4



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

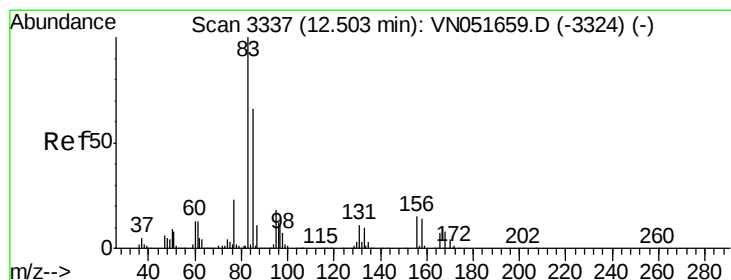
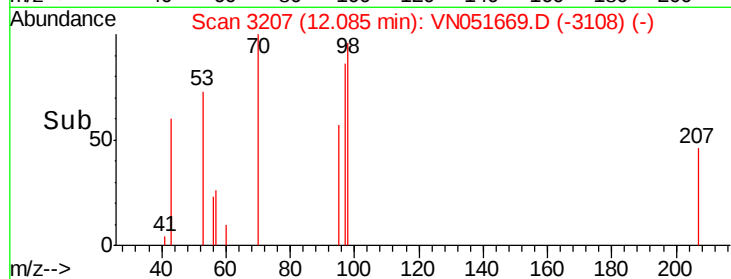
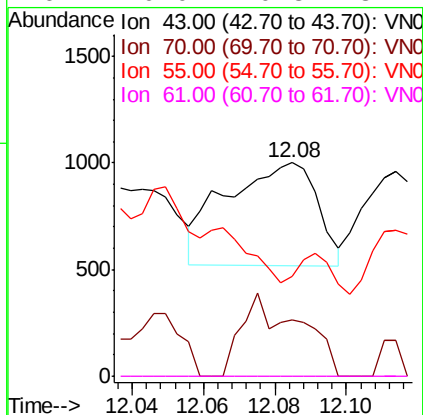
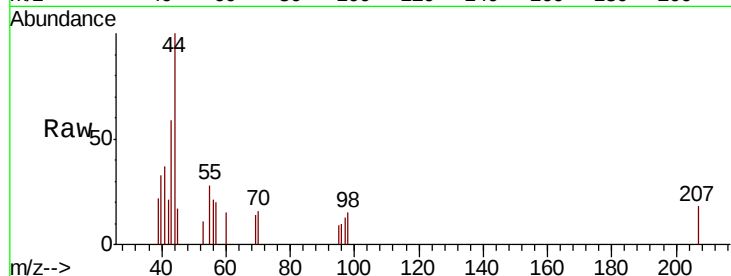




#74
N-amvl acetate
Concen: Below Cal
RT: 12.08 min Scan# 3207
Delta R.T. 0.02 min
Lab File: VN051669.D
Acq: 4 Oct 2018 17:29

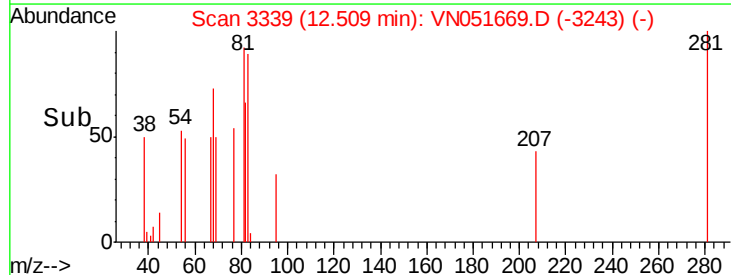
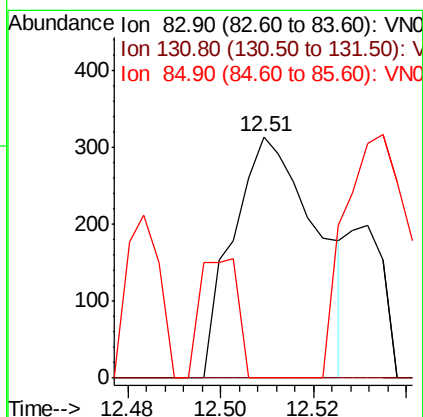
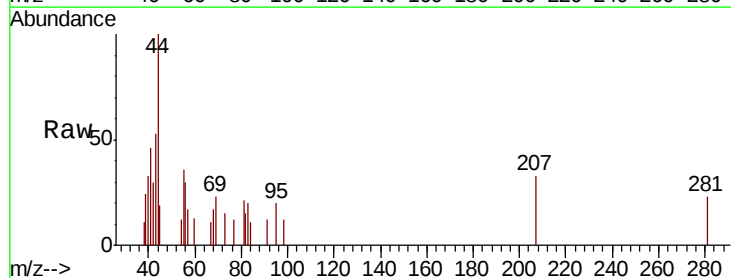
Instrument :
MSVOA_N
ClientSampled :

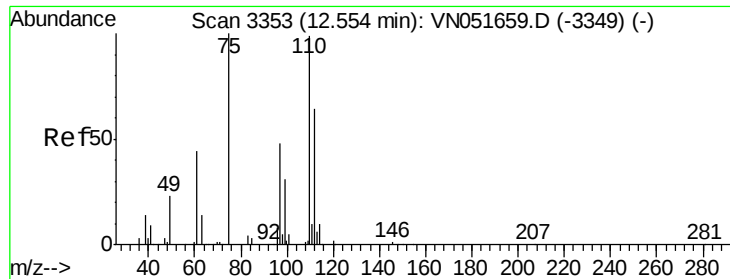
Tot Ion: 43 Resp: 851
Ion Ratio Lower Upper
43 100
70 29.8 37.1 55.7#
55 14.3 19.1 28.7#
61 0.0 20.8 31.2#



#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.51 min Scan# 3339
Delta R.T. 0.01 min
Lab File: VN051669.D
Acq: 4 Oct 2018 17:29

Tgt Ion: 83 Resp: 391
Ion Ratio Lower Upper
83 100
131 0.0 5.7 17.1#
85 22.5 33.0 98.9#





#76

1,2,3-Trichloropropane

Concen: 57.925 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051669.D

Acq: 4 Oct 2018 17:29

Instrument :

MSVOA_N

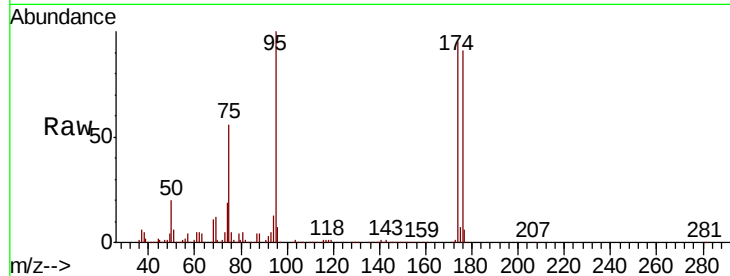
ClientSampled :

Tot Ion: 75 Resp: 197868

Ion Ratio Lower Upper

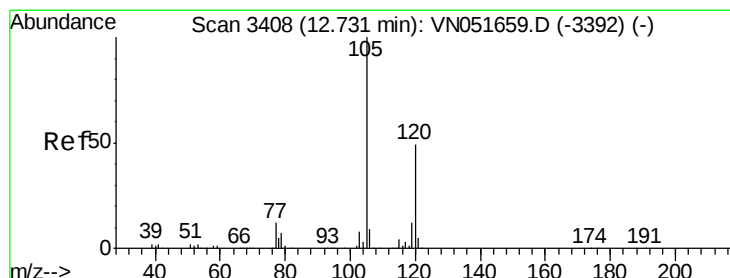
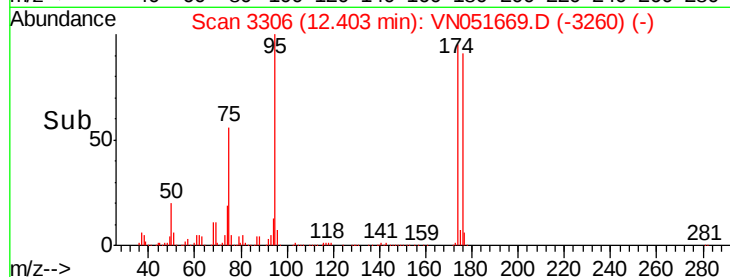
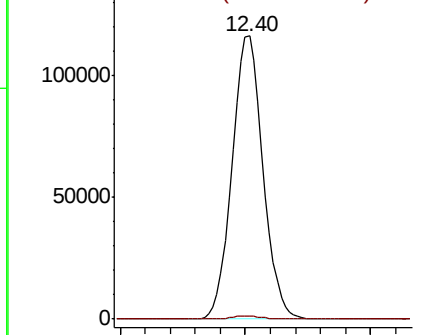
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN051669.D (-3306) (-)

Ion 77.00 (76.70 to 77.70): VN051669.D (-3306) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.246 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN051669.D

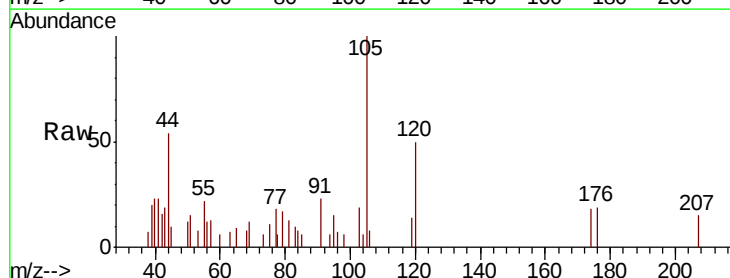
Acq: 4 Oct 2018 17:29

Tgt Ion: 105 Resp: 4904

Ion Ratio Lower Upper

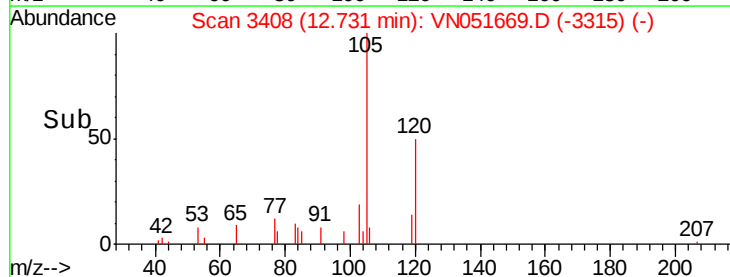
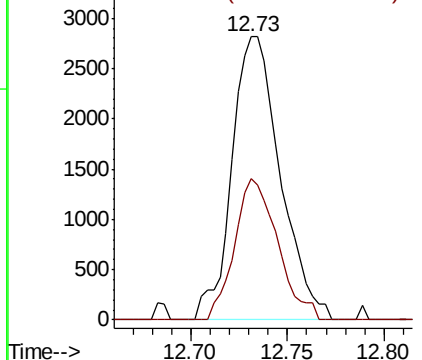
105 100

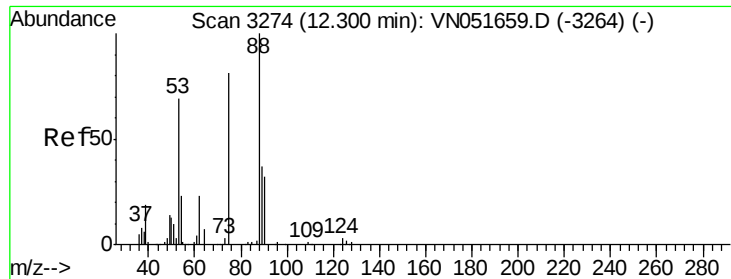
120 44.2 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): VN051669.D (-3408) (-)

Ion 120.00 (119.70 to 120.70): VN051669.D (-3408) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 130.817 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051669.D

Acq: 4 Oct 2018 17:29

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 197868

Ion Ratio Lower Upper

75 100

53 0.1 68.6 102.8#

89 0.0 39.4 59.2#

