

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092718\
 Data File : VN051600.D
 Acq On : 27 Sep 2018 22:36
 Operator : MD\SY
 Sample : J5097-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 65 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-2

Quant Time: Sep 28 01:55:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 24 06:41:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	615695	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1027219	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	863025	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	333170	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	454815	58.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.94%	
35) Dibromofluoromethane	7.59	113	388483	47.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.58%	
50) Toluene-d8	10.09	98	1425892	46.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.20%	
62) 4-Bromofluorobenzene	12.40	95	395935	39.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.14%	

Target Compounds

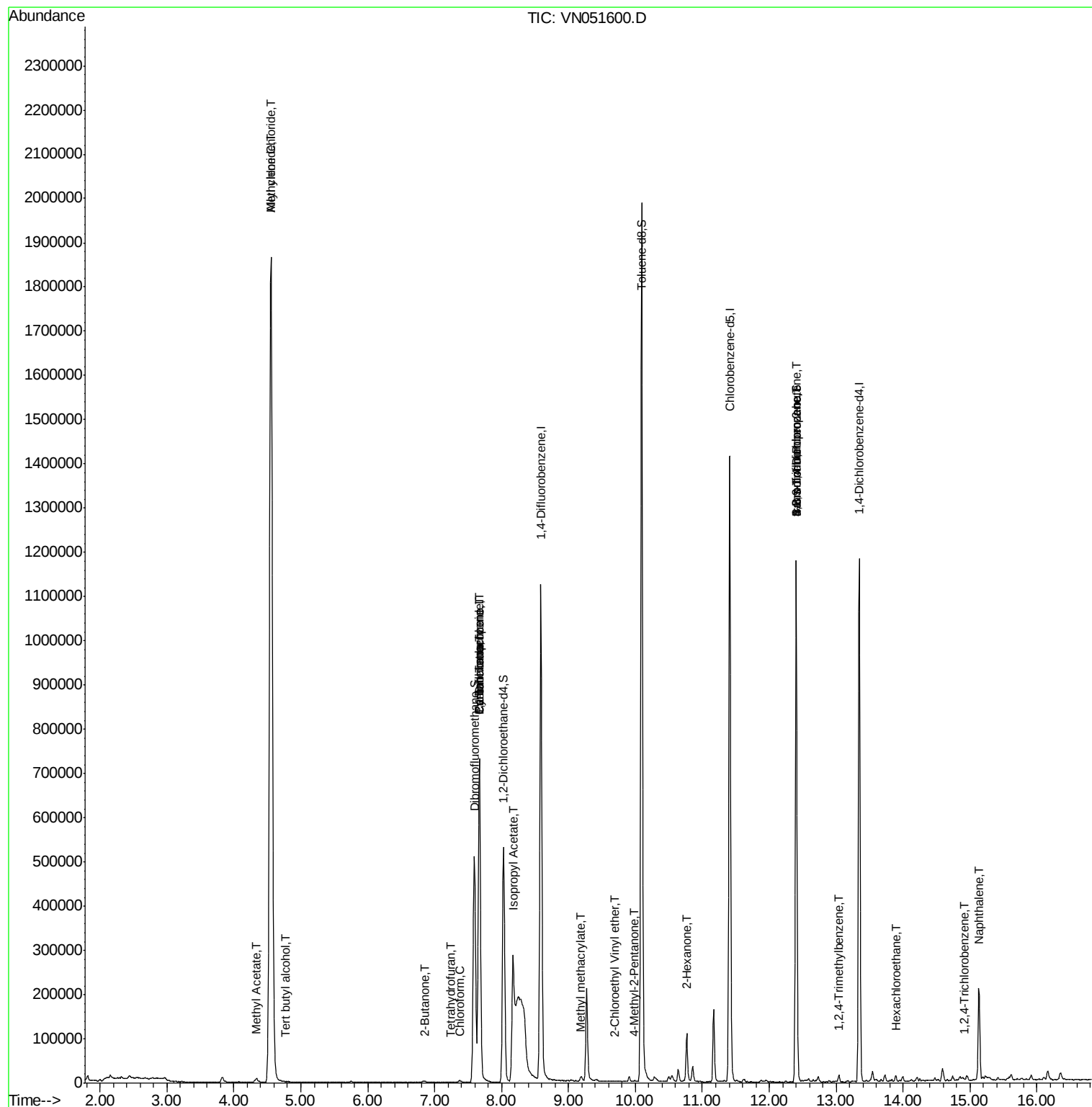
					Qvalue
11) Tert butyl alcohol	4.77	59	152	0.349 ug/l #	78
14) Allyl chloride	4.55	41	57750	5.025 ug/l #	26
16) Acetone	3.83	43	20472	Below Cal	99
18) Methyl Acetate	4.33	43	18675	3.179 ug/l	95
20) Methylene Chloride	4.55	84	1408344	184.530 ug/l	98
25) 2-Butanone	6.85	43	3419	1.295 ug/l #	73
29) Tetrahydrofuran	7.23	42	1035	0.619 ug/l #	48
30) Chloroform	7.37	83	5257	0.400 ug/l	93
31) Cyclohexane	7.66	56	12787	1.053 ug/l #	1
36) 1,1-Dichloropropene	7.67	75	44997	3.783 ug/l #	48
38) Carbon Tetrachloride	7.67	117	56042	4.504 ug/l #	17
43) Isopropyl Acetate	8.17	43	380015	30.727 ug/l #	86
48) Methyl methacrylate	9.18	41	7383	1.197 ug/l #	18
51) 4-Methyl-2-Pentanone	9.99	43	1854	0.273 ug/l	95
58) 2-Chloroethyl Vinyl ether	9.70	63	30	20.374 ug/l #	48
59) 2-Hexanone	10.77	43	15400	3.493 ug/l #	58
71) Bromoform	12.40	173	3741	0.654 ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	191360	34.599 ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	191360	106.389 ug/l #	12
84) 1,2,4-Trimethylbenzene	13.04	105	8410	0.364 ug/l	100
90) Hexachloroethane	13.89	117	966	0.203 ug/l #	4
93) 1,2,4-Trichlorobenzene	14.91	180	601	6.064 ug/l #	3
95) Naphthalene	15.14	128	180658	20.282 ug/l	97

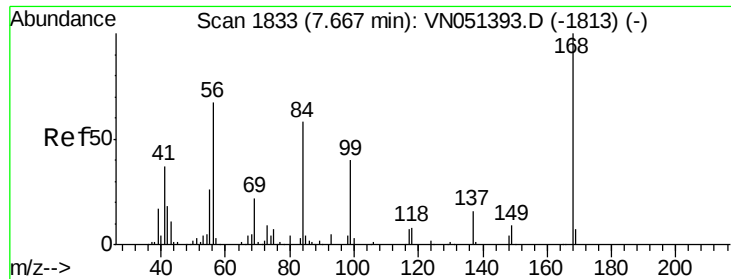
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN051600.D

Acq: 27 Sep 2018 22:36

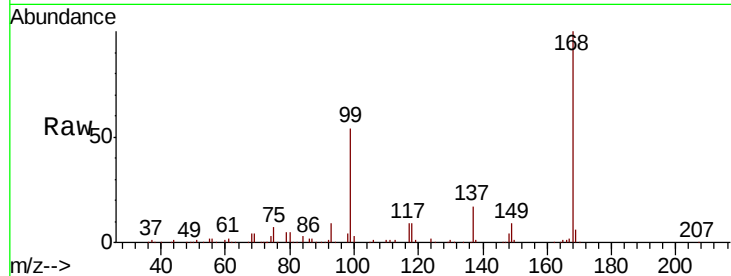
Instrument :
MSVOA_N
ClientSampled :
TP-2

Tot Ion:168 Resp: 615695

Ion Ratio Lower Upper

168 100

99 54.2 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN051393.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN051393.D (-1813) (-)

7.67

250000

200000

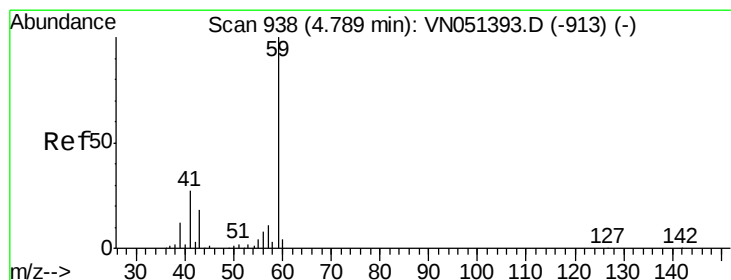
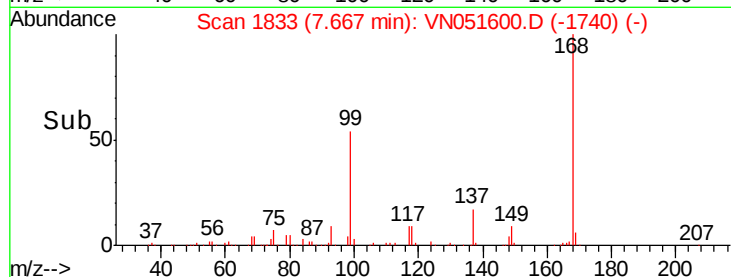
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.349 ug/l

RT: 4.77 min Scan# 932

Delta R.T. -0.02 min

Lab File: VN051600.D

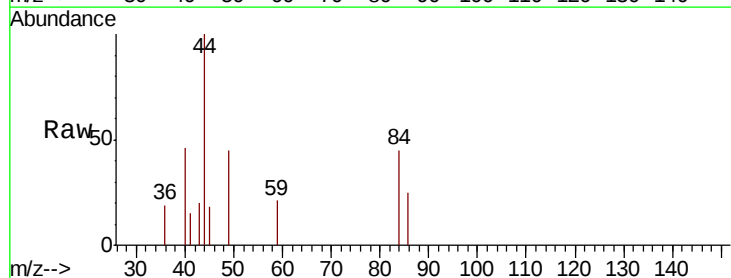
Acq: 27 Sep 2018 22:36

Tgt Ion: 59 Resp: 152

Ion Ratio Lower Upper

59 100

57 0.0 6.2 9.2#



Abundance Ion 59.00 (58.70 to 59.70): VN051393.D (-913) (-)

Ion 57.00 (56.70 to 57.70): VN051393.D (-913) (-)

4.77

250

200

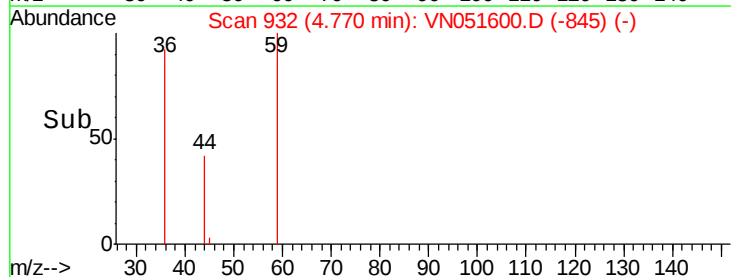
150

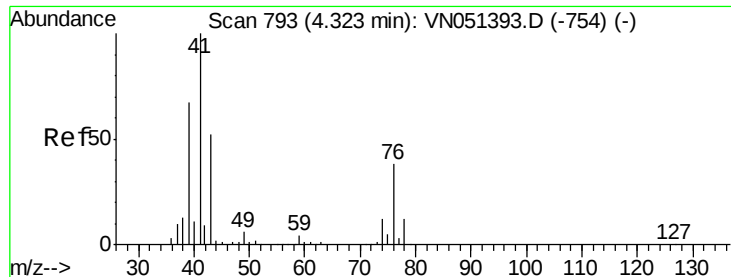
100

50

0

Time-->

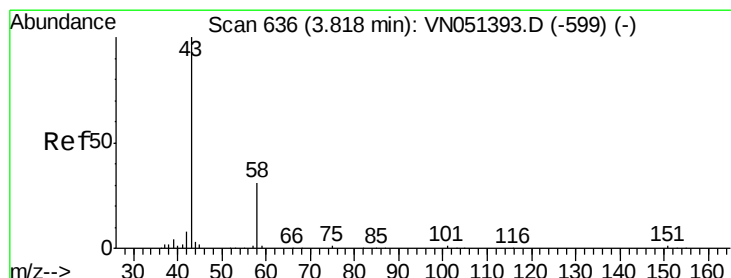
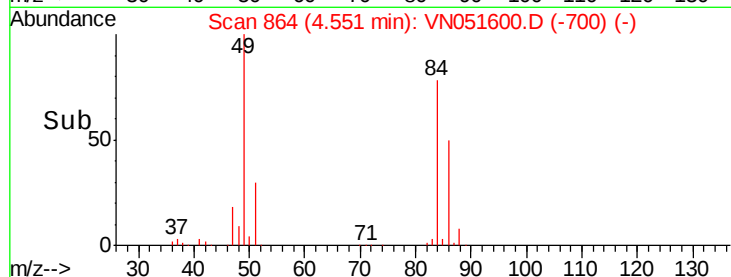
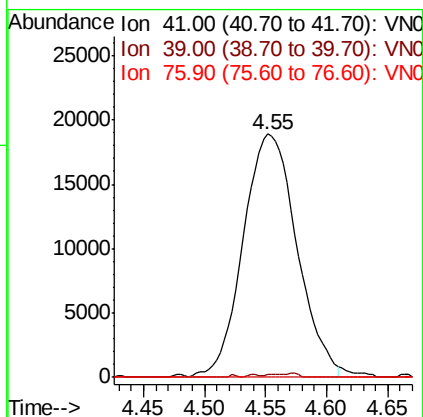
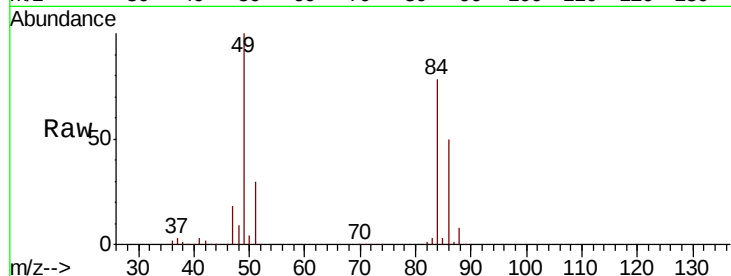




#14
Allvl chloride
Concen: 5.025 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.23 min
Lab File: VN051600.D
Acq: 27 Sep 2018 22:36

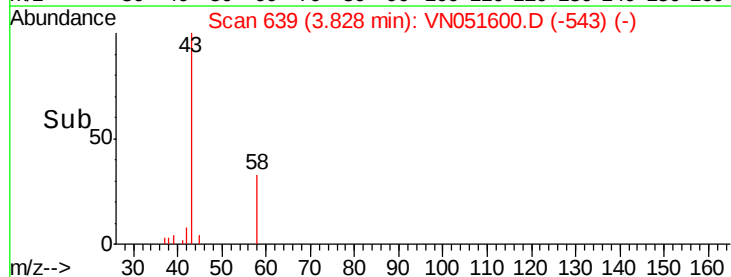
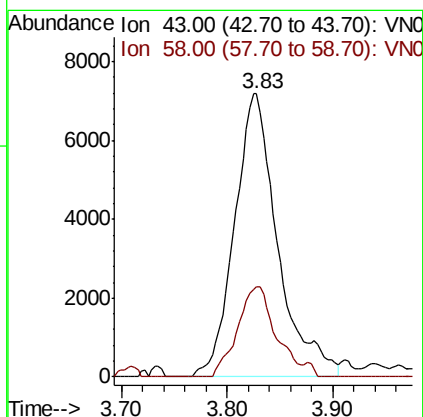
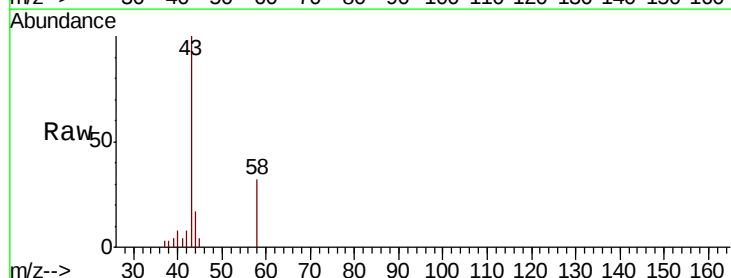
Instrument :
MSVOA_N
ClientSampled :
TP-2

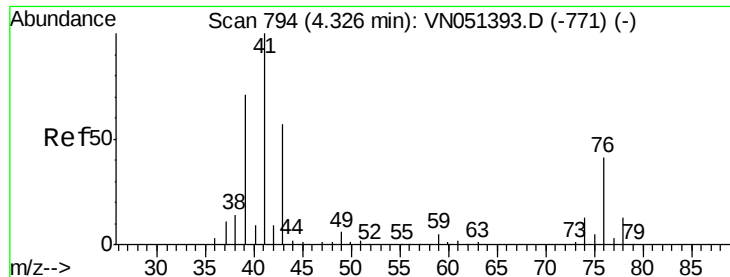
Tot Ion: 41 Resp: 57750
Ion Ratio Lower Upper
41 100
39 0.4 51.4 77.2#
76 0.0 28.1 42.1#



#16
Acetone
Concen: Below Cal
RT: 3.83 min Scan# 639
Delta R.T. 0.01 min
Lab File: VN051600.D
Acq: 27 Sep 2018 22:36

Tgt Ion: 43 Resp: 20472
Ion Ratio Lower Upper
43 100
58 31.9 25.0 37.4

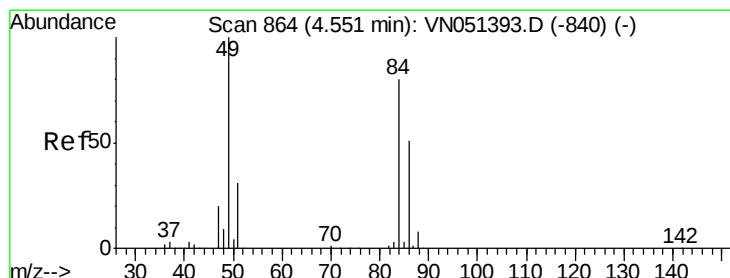
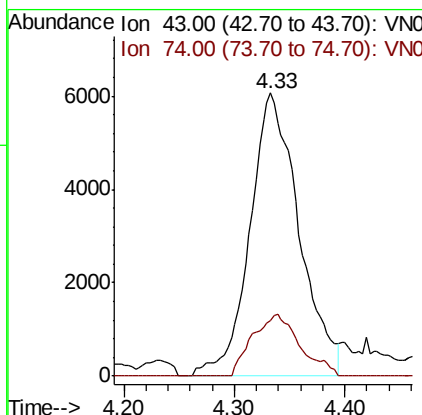
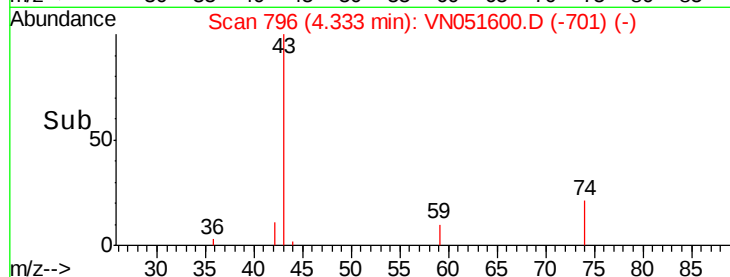
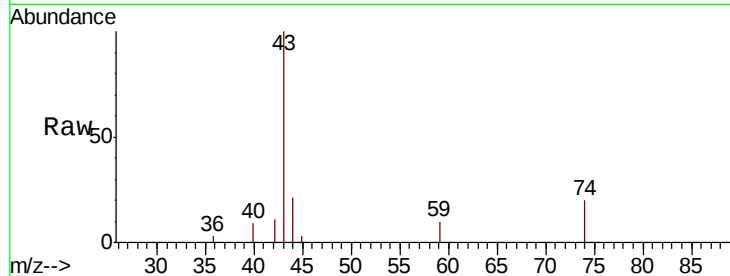




#18
Methyl Acetate
Concen: 3.179 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN051600.D
Acq: 27 Sep 2018 22:36

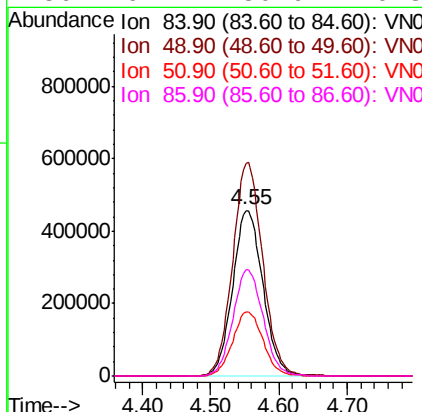
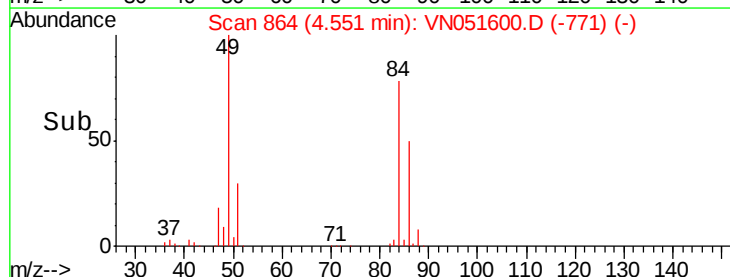
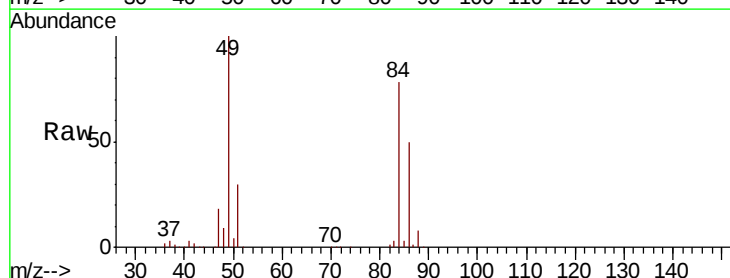
Instrument :
MSVOA_N
ClientSampled :
TP-2

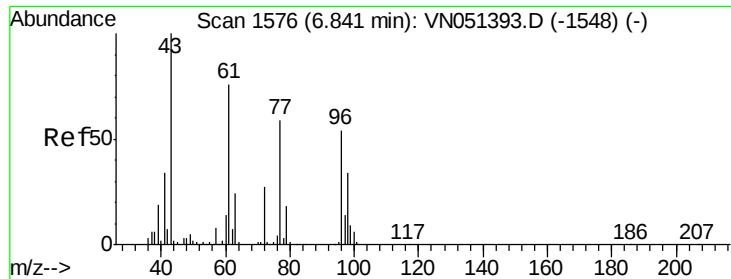
Tot Ion: 43 Resp: 18675
Ion Ratio Lower Upper
43 100
74 21.2 18.8 28.2



#20
Methylene Chloride
Concen: 184.530 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN051600.D
Acq: 27 Sep 2018 22:36

Tgt Ion: 84 Resp: 1408344
Ion Ratio Lower Upper
84 100
49 128.6 99.9 149.9
51 38.9 31.4 47.2
86 64.1 50.9 76.3

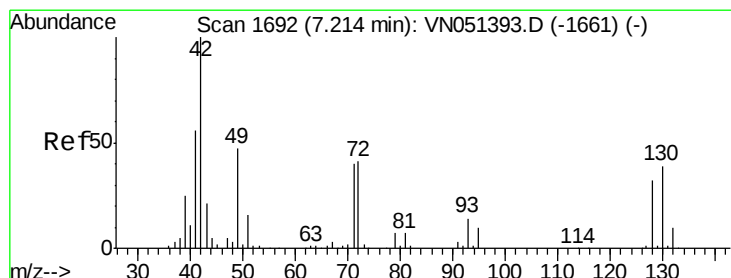
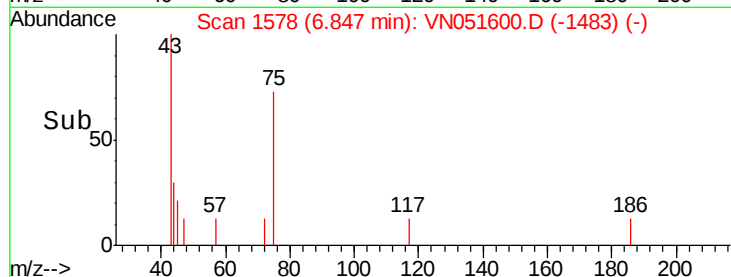
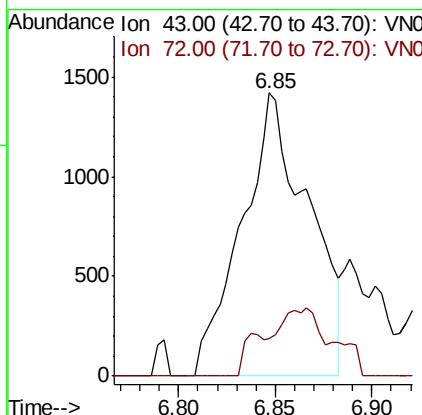
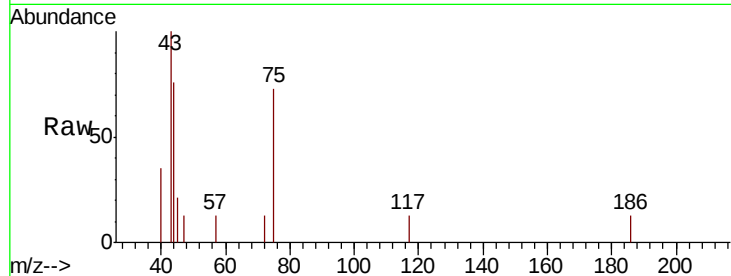




#25
 2-Butanone
 Concen: 1.295 ug/l
 RT: 6.85 min Scan# 1578
 Delta R.T. 0.01 min
 Lab File: VN051600.D
 Acq: 27 Sep 2018 22:36

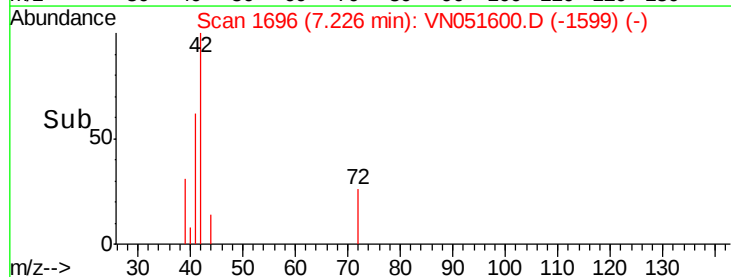
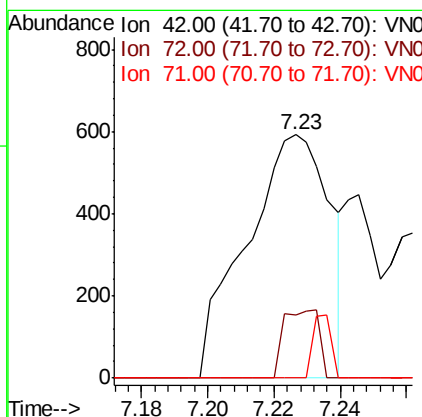
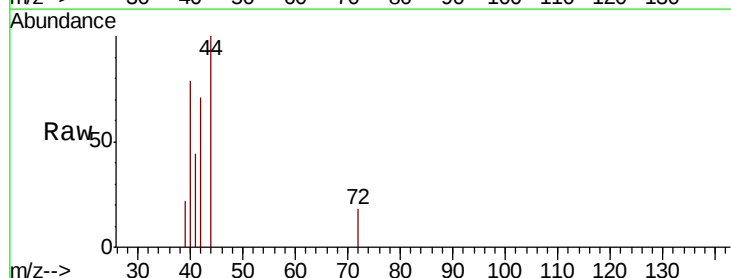
Instrument :
 MSVOA_N
 ClientSampled :
 TP-2

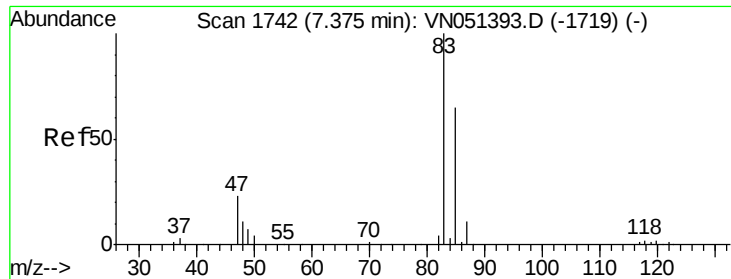
Tot Ion: 43 Resp: 3419
 Ion Ratio Lower Upper
 43 100
 72 13.1 21.8 32.6#



#29
 Tetrahydrofuran
 Concen: 0.619 ug/l
 RT: 7.23 min Scan# 1696
 Delta R.T. 0.01 min
 Lab File: VN051600.D
 Acq: 27 Sep 2018 22:36

Tgt Ion: 42 Resp: 1035
 Ion Ratio Lower Upper
 42 100
 72 12.0 34.3 51.5#
 71 5.7 32.2 48.4#

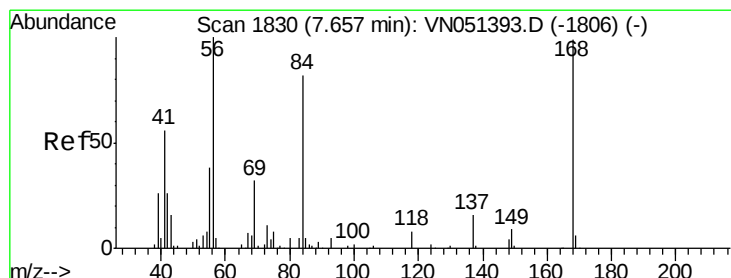
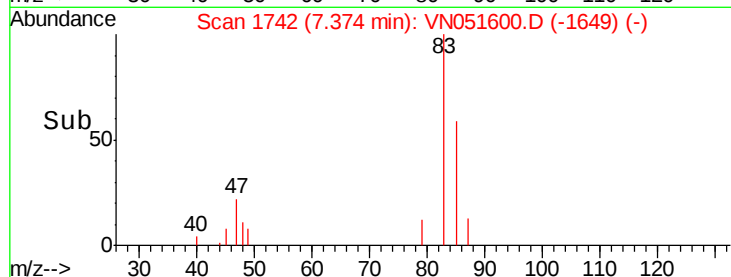
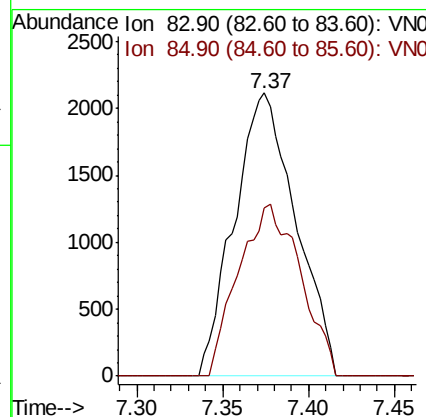
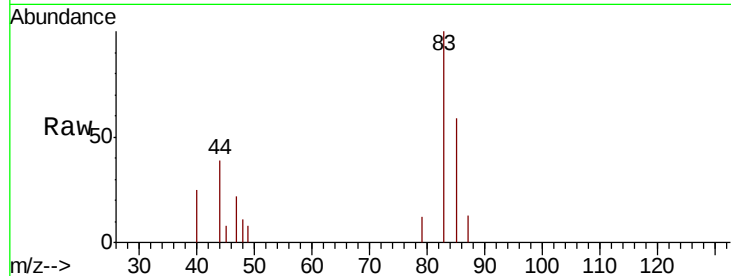




#30
Chloroform
Concen: 0.400 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. -0.00 min
Lab File: VN051600.D
Acq: 27 Sep 2018 22:36

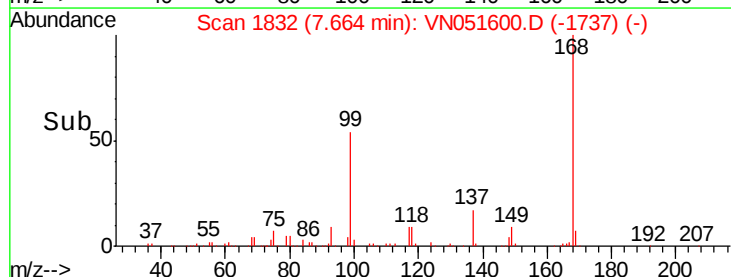
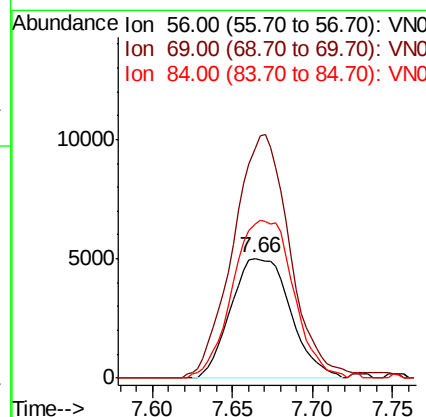
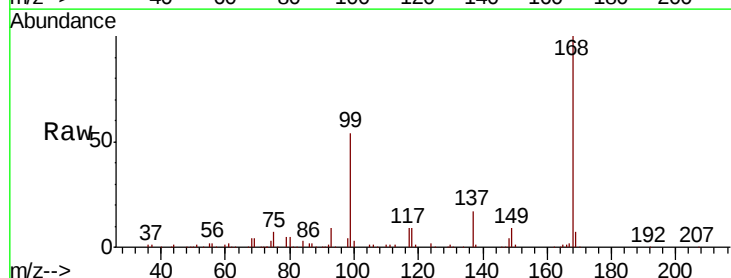
Instrument :
MSVOA_N
ClientSampleId :
TP-2

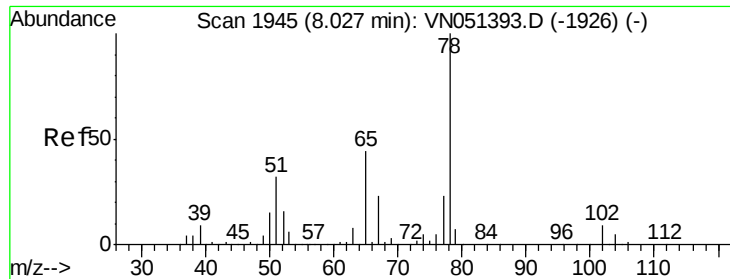
Tot Ion: 83 Resp: 5257
Ion Ratio Lower Upper
83 100
85 59.4 51.8 77.6



#31
Cyclohexane
Concen: 1.053 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN051600.D
Acq: 27 Sep 2018 22:36

Tgt Ion: 56 Resp: 12787
Ion Ratio Lower Upper
56 100
69 187.2 25.8 38.6#
84 125.5 66.0 99.0#

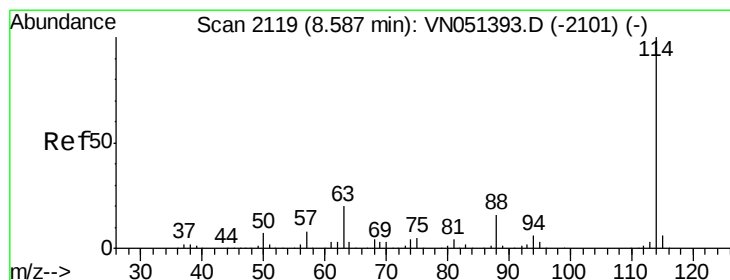
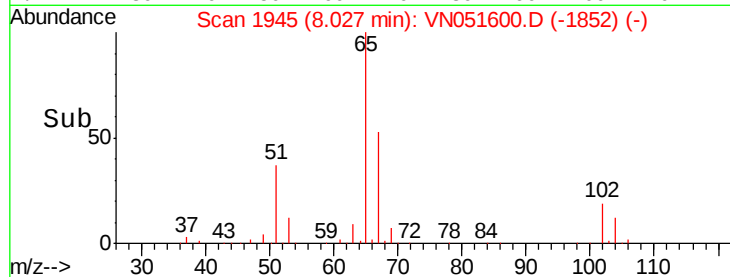
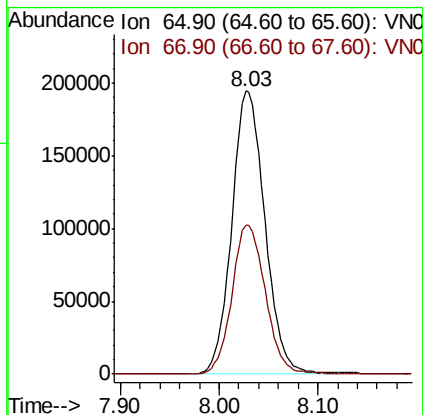
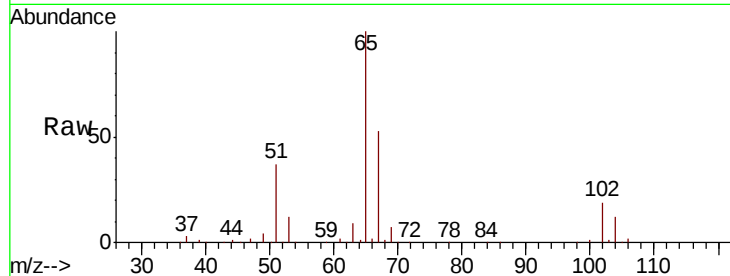




#33
 1,2-Dichloroethane-d4
 Concen: 58.970 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN051600.D
 Acq: 27 Sep 2018 22:36

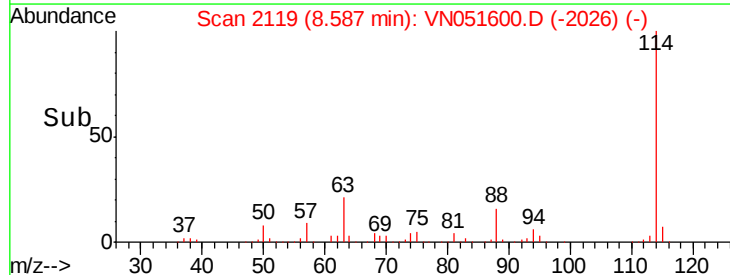
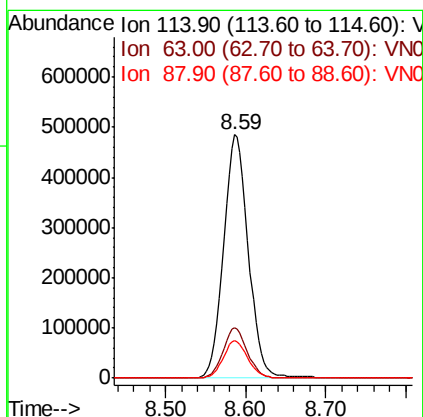
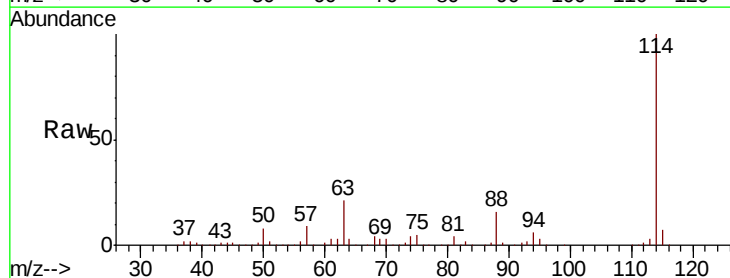
Instrument :
 MSVOA_N
 ClientSampled :
 TP-2

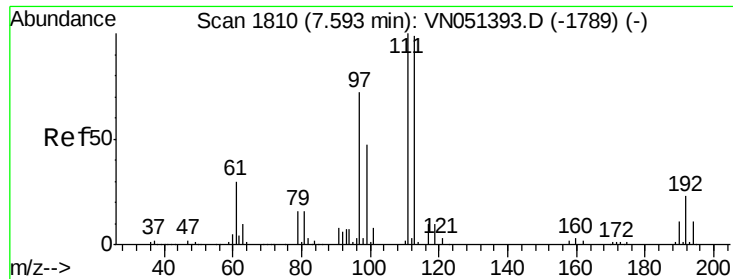
Tot Ion: 65 Resp: 454815
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051600.D
 Acq: 27 Sep 2018 22:36

Tgt Ion: 114 Resp: 1027219
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 40.2
 88 15.6 0.0 31.4

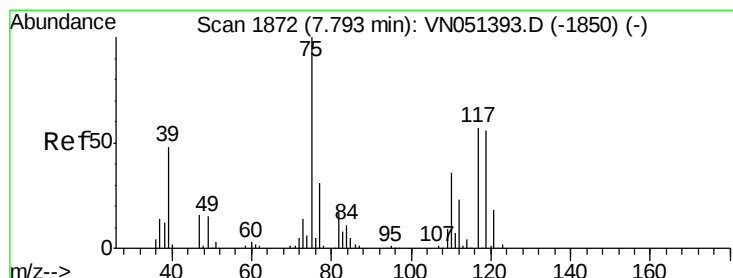
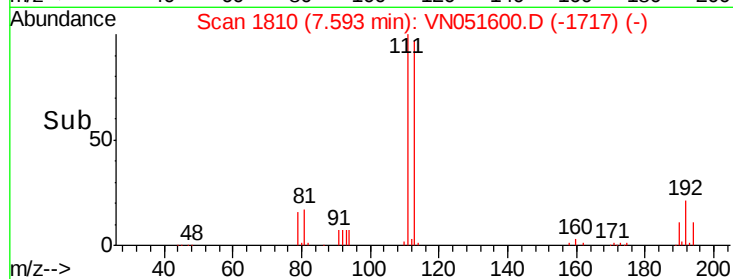
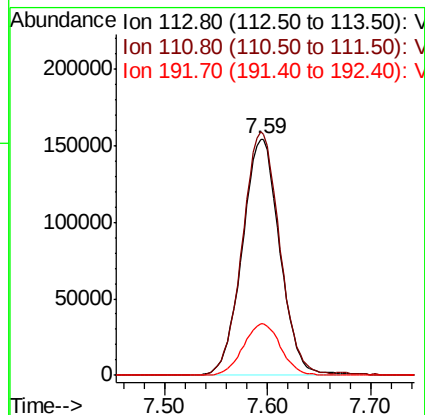
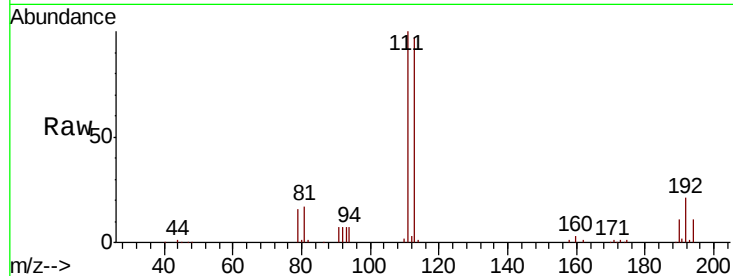




#35
 Dibromofluoromethane
 Concen: 47.294 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051600.D
 Acq: 27 Sep 2018 22:36

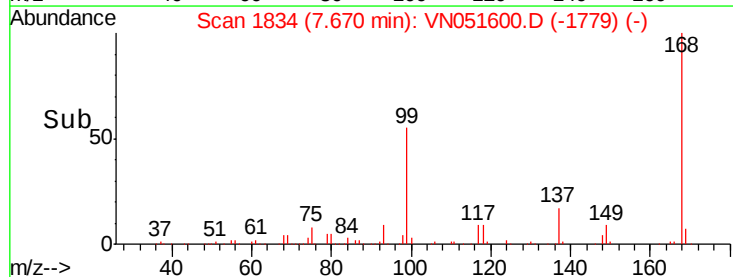
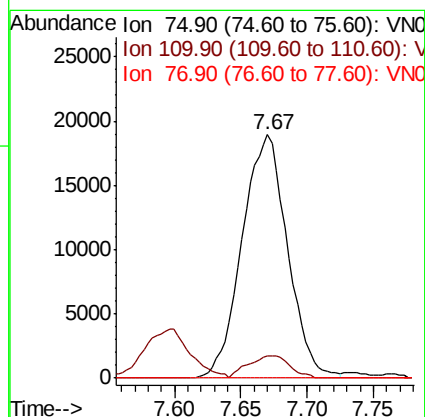
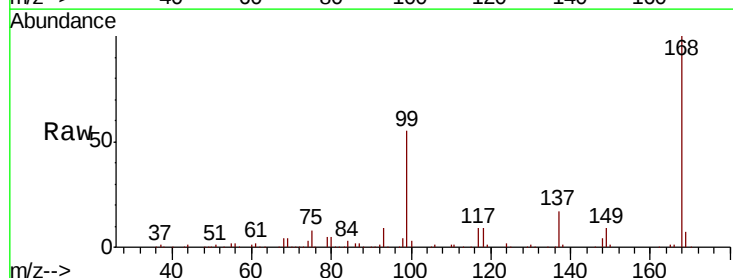
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-2

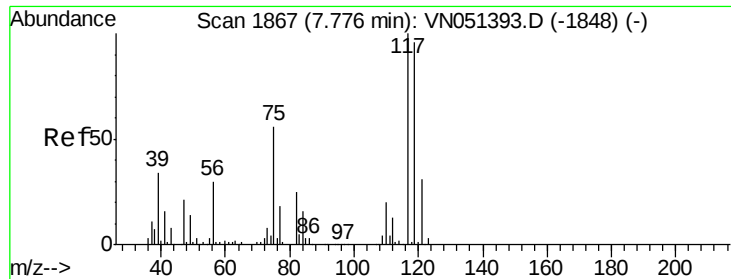
Tot Ion:113 Resp: 388483
 Ion Ratio Lower Upper
 113 100
 111 102.9 82.6 123.8
 192 22.0 18.0 27.0



#36
 1,1-Dichloropropene
 Concen: 3.783 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN051600.D
 Acq: 27 Sep 2018 22:36

Tgt Ion: 75 Resp: 44997
 Ion Ratio Lower Upper
 75 100
 110 8.5 18.1 54.3#
 77 0.0 25.6 38.4#

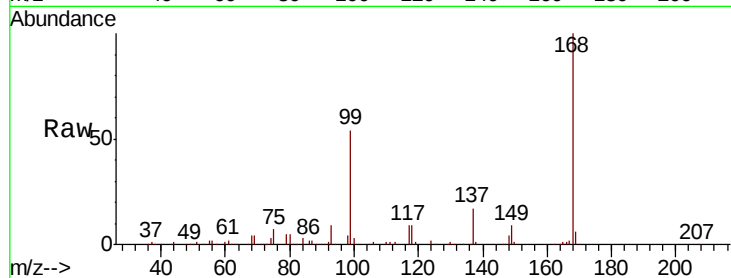




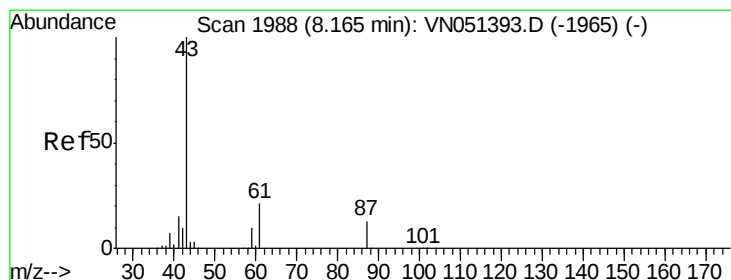
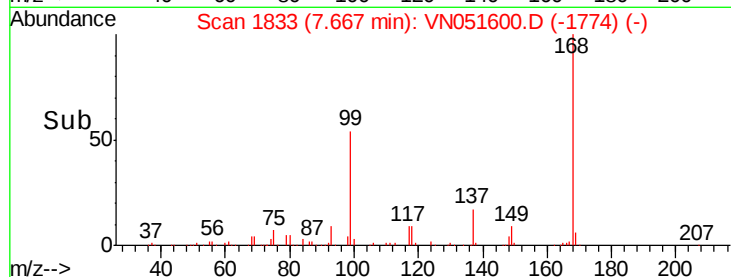
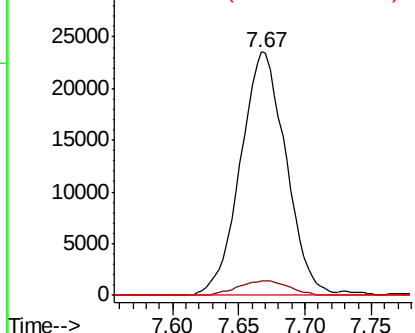
#38
Carbon Tetrachloride
Concen: 4.504 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN051600.D
Acq: 27 Sep 2018 22:36

Instrument :
MSVOA_N
ClientSampled :
TP-2

Tot Ion:117 Resp: 56042
Ion Ratio Lower Upper
117 100
119 6.0 76.9 115.3#
121 0.0 24.6 37.0#

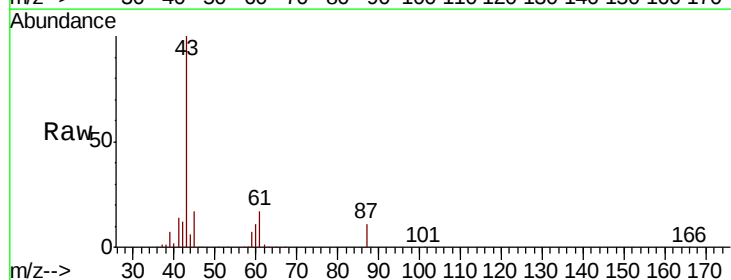


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

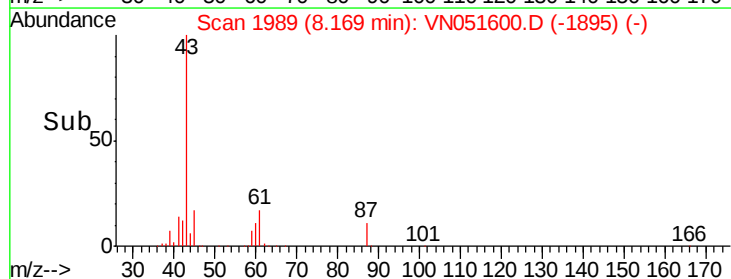
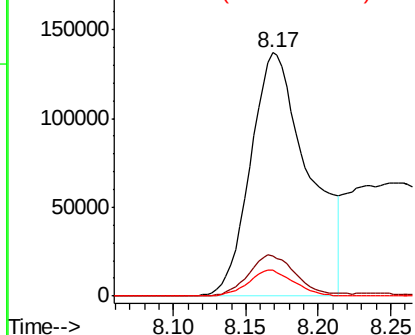


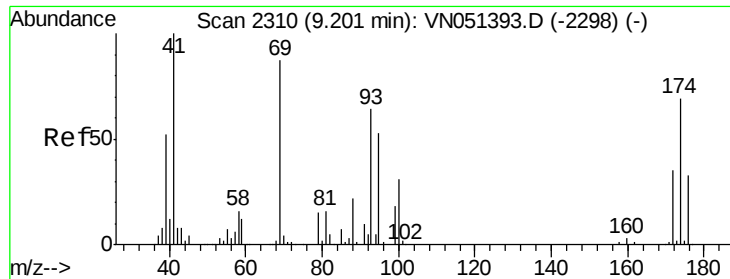
#43
Isopropyl Acetate
Concen: 30.727 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VN051600.D
Acq: 27 Sep 2018 22:36

Tgt Ion: 43 Resp: 380015
Ion Ratio Lower Upper
43 100
61 14.0 16.8 25.2#
87 8.5 10.7 16.1#



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

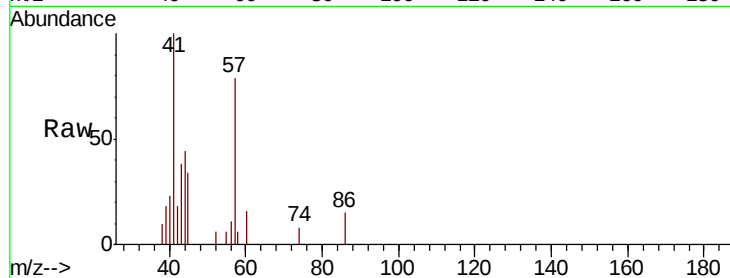




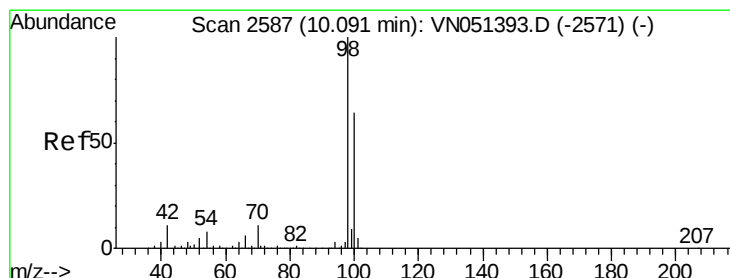
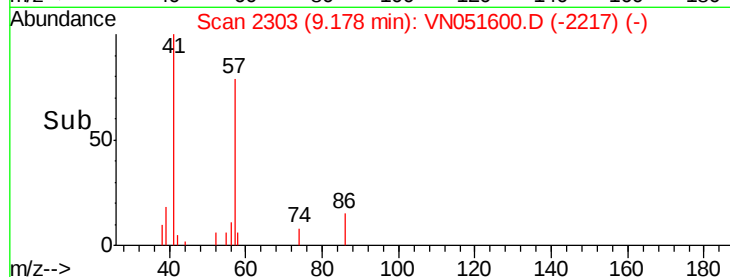
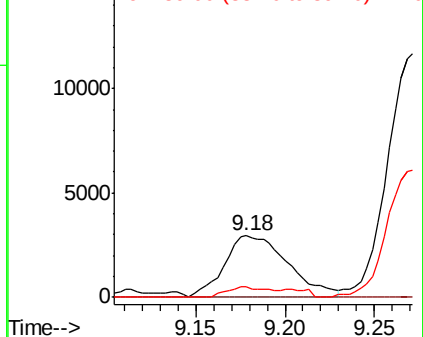
#48
Methvl methacrylate
Concen: 1.197 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN051600.D
Acq: 27 Sep 2018 22:36

Instrument :
MSVOA_N
ClientSampled :
TP-2

Tot Ion: 41 Resp: 7383
Ion Ratio Lower Upper
41 100
69 0.0 70.4 105.6#
39 10.7 43.8 65.8#

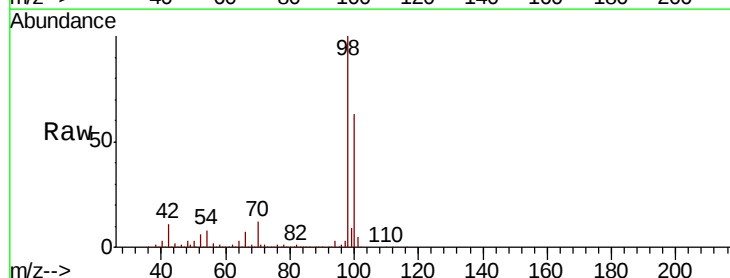


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

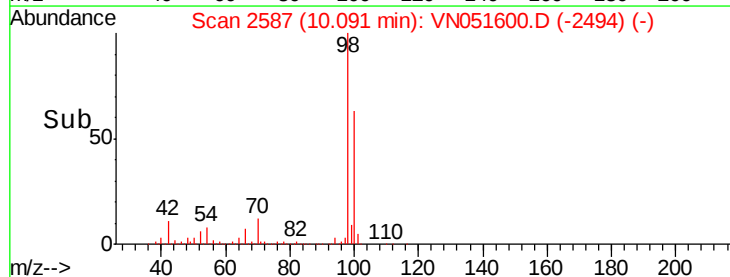
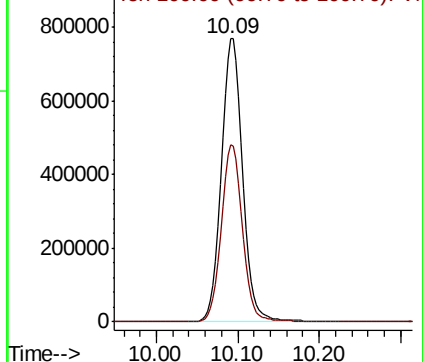


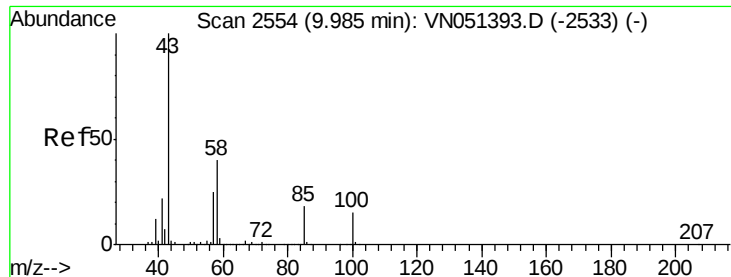
#50
Toluene-d8
Concen: 46.098 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051600.D
Acq: 27 Sep 2018 22:36

Tgt Ion: 98 Resp: 1425892
Ion Ratio Lower Upper
98 100
100 62.4 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

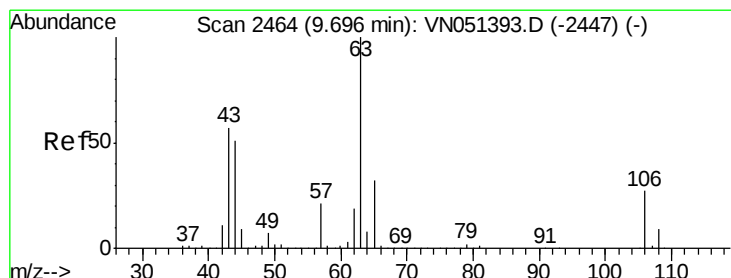
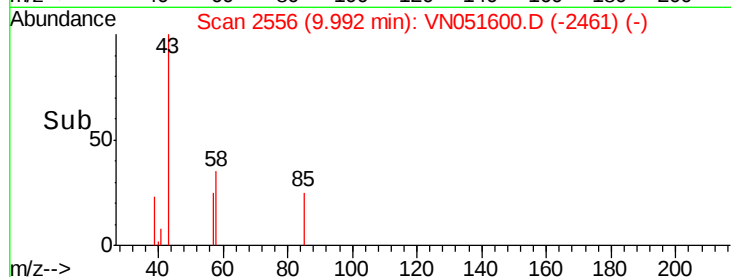
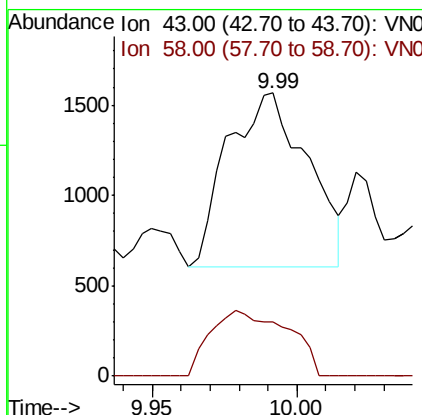
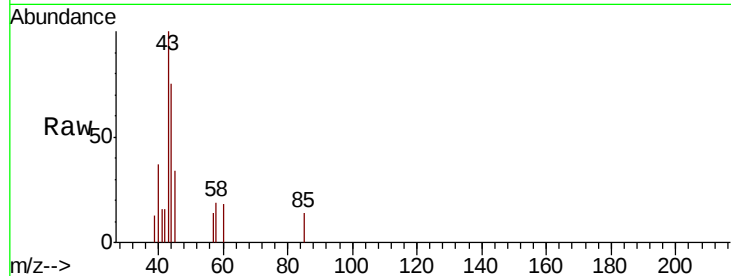




#51
 4-Methyl-2-Pentanone
 Concen: 0.273 ug/l
 RT: 9.99 min Scan# 2556
 Delta R.T. 0.01 min
 Lab File: VN051600.D
 Acq: 27 Sep 2018 22:36

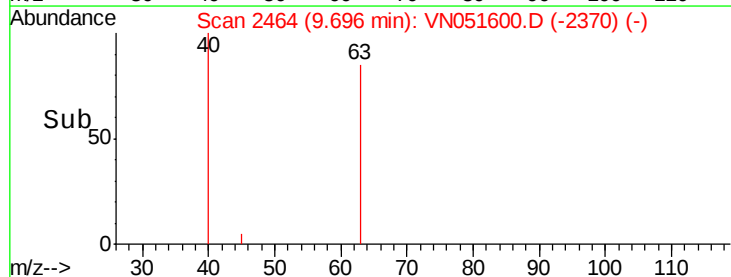
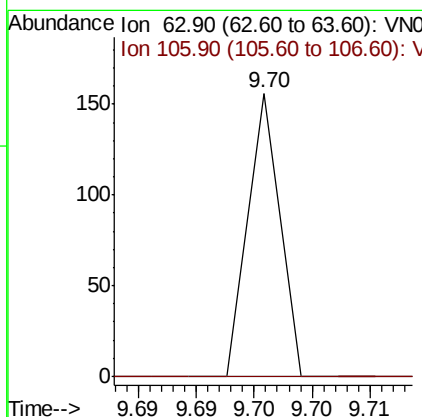
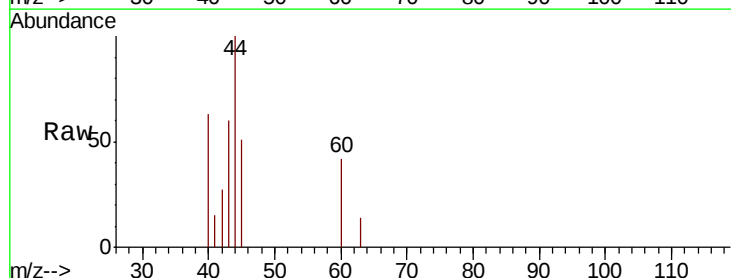
Instrument :
 MSVOA_N
 ClientSampled :
 TP-2

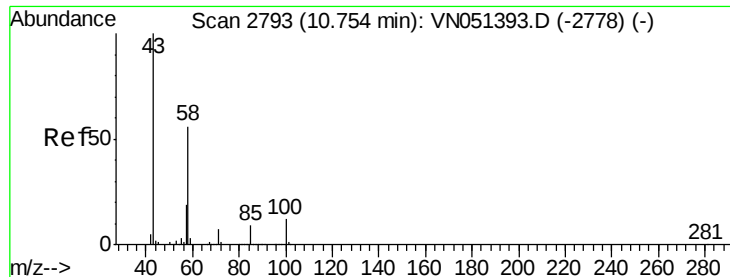
Tot Ion: 43 Resp: 1854
 Ion Ratio Lower Upper
 43 100
 58 36.6 31.5 47.3



#58
 2-Chloroethyl Vinyl ether
 Concen: 20.374 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN051600.D
 Acq: 27 Sep 2018 22:36

Tgt Ion: 63 Resp: 30
 Ion Ratio Lower Upper
 63 100
 106 0.0 21.4 32.2#

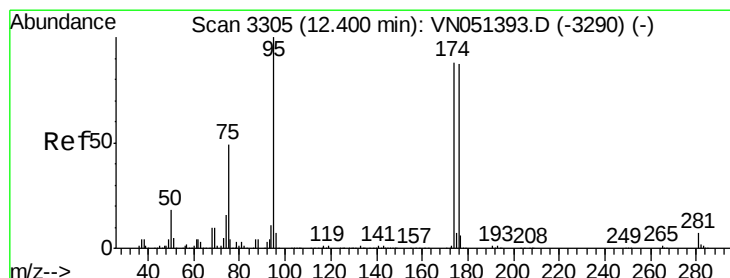
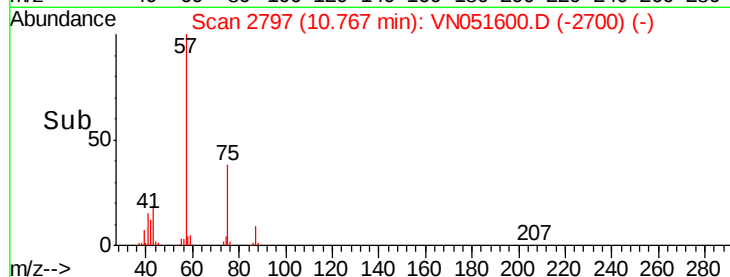
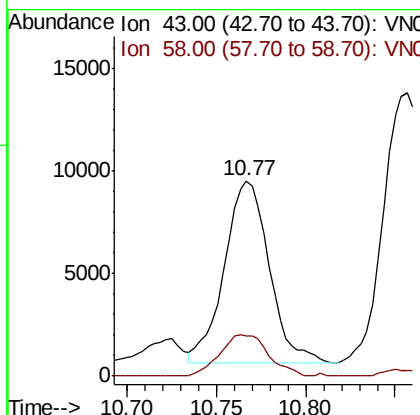
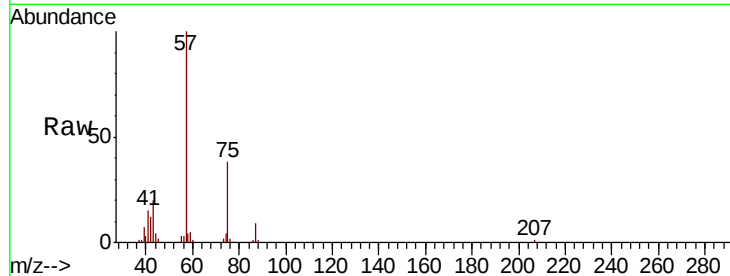




#59
2-Hexanone
Concen: 3.493 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051600.D
Acq: 27 Sep 2018 22:36

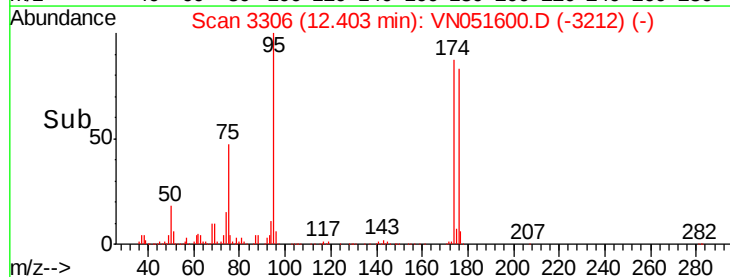
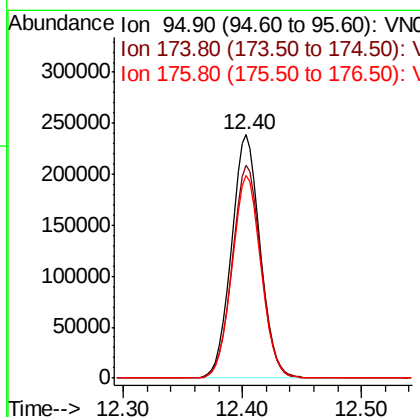
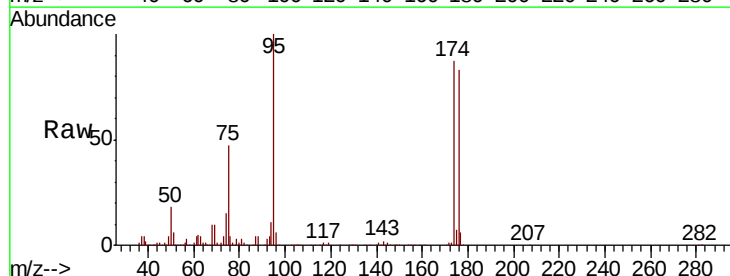
Instrument :
MSVOA_N
ClientSampled :
TP-2

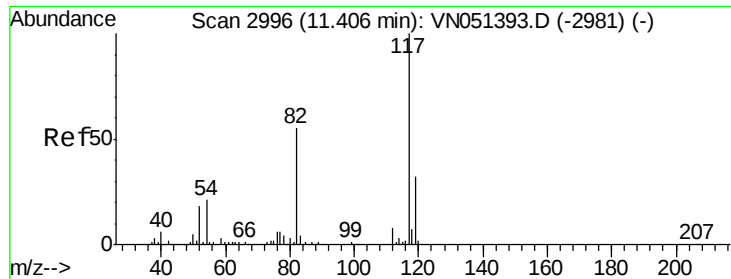
Tot Ion: 43 Resp: 15400
Ion Ratio Lower Upper
43 100
58 24.7 27.7 83.0#



#62
4-Bromofluorobenzene
Concen: 39.568 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051600.D
Acq: 27 Sep 2018 22:36

Tgt Ion: 95 Resp: 395935
Ion Ratio Lower Upper
95 100
174 89.1 0.0 181.6
176 84.6 0.0 176.4

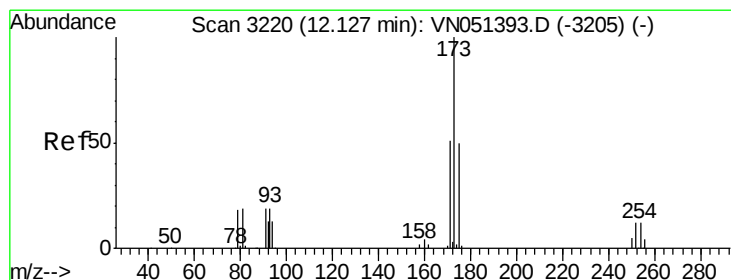
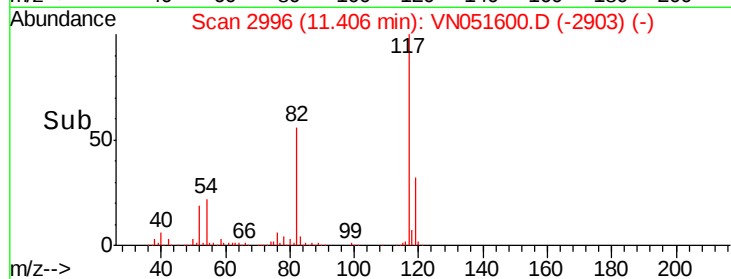
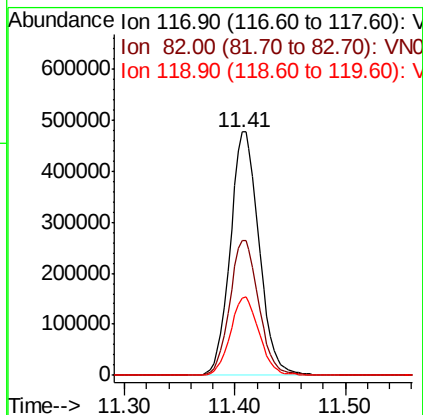
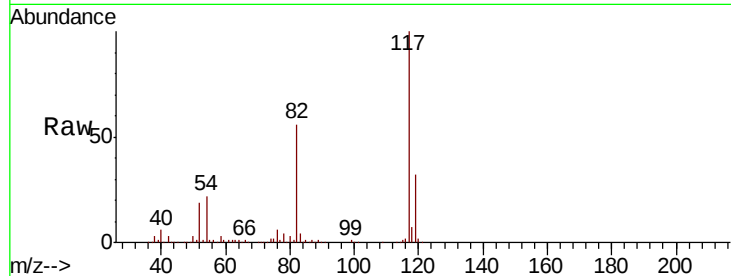




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051600.D
Acq: 27 Sep 2018 22:36

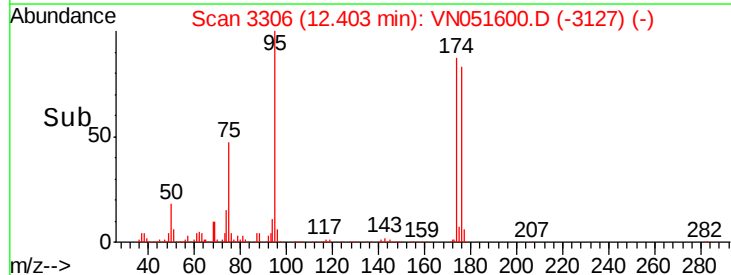
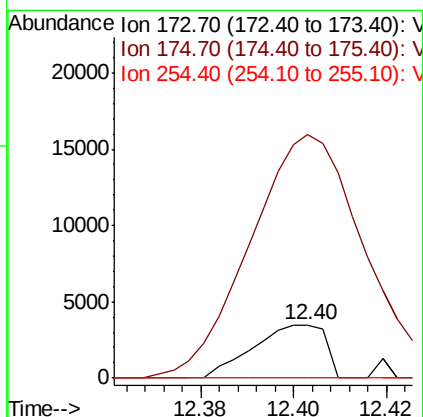
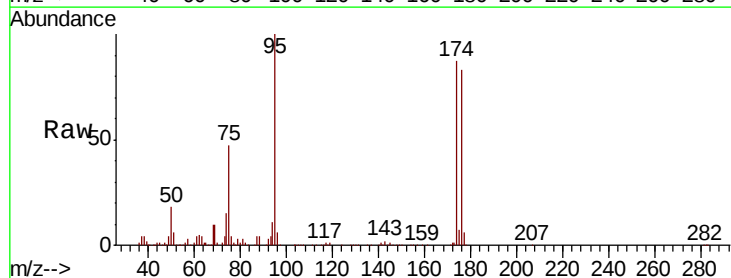
Instrument :
MSVOA_N
ClientSampled :
TP-2

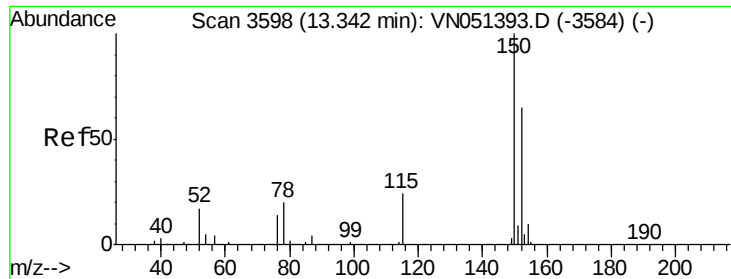
Tot Ion:117 Resp: 863025
Ion Ratio Lower Upper
117 100
82 55.6 44.2 66.2
119 31.8 25.9 38.9



#71
Bromoform
Concen: 0.654 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN051600.D
Acq: 27 Sep 2018 22:36

Tgt Ion:173 Resp: 3741
Ion Ratio Lower Upper
173 100
175 611.4 24.8 74.3#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051600.D

Acq: 27 Sep 2018 22:36

Instrument :

MSVOA_N

ClientSampled :

TP-2

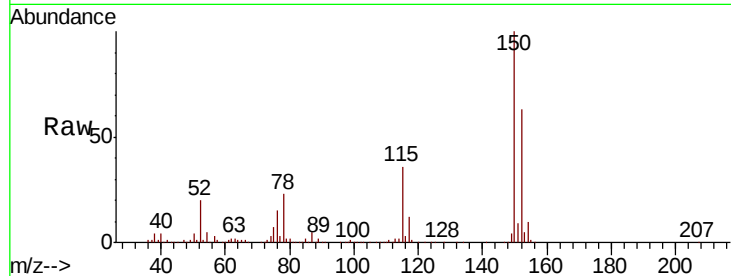
Tot Ion:152 Resp: 333170

Ion Ratio Lower Upper

152 100

115 57.1 28.3 84.9

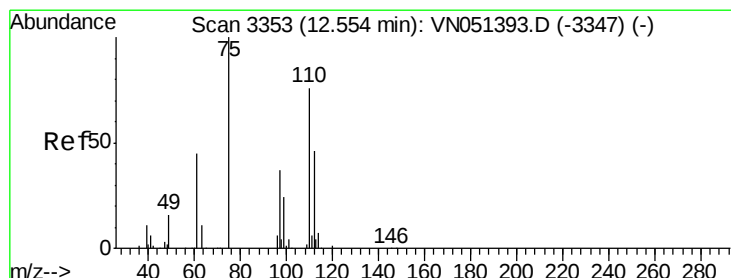
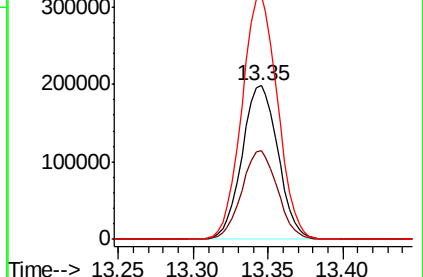
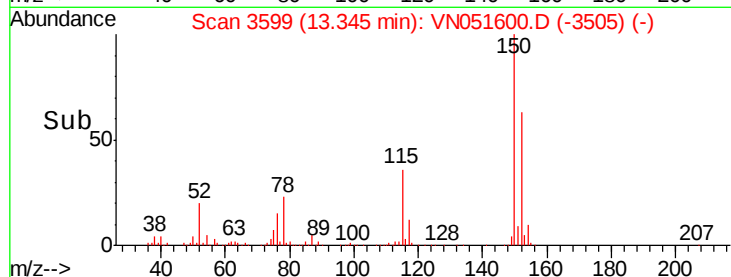
150 156.9 0.0 353.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 34.599 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051600.D

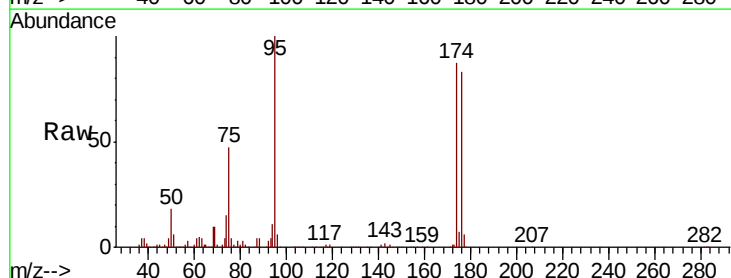
Acq: 27 Sep 2018 22:36

Tgt Ion: 75 Resp: 191360

Ion Ratio Lower Upper

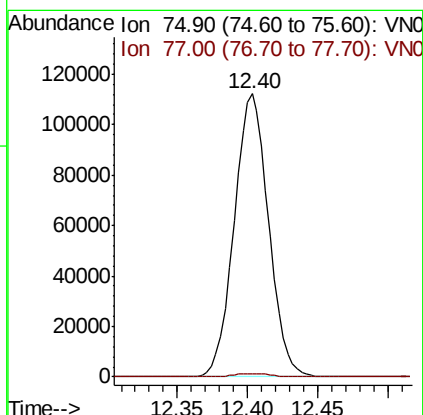
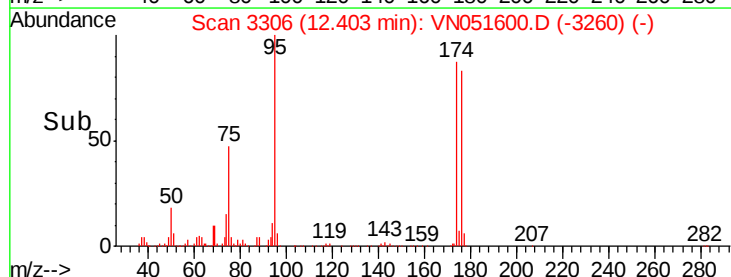
75 100

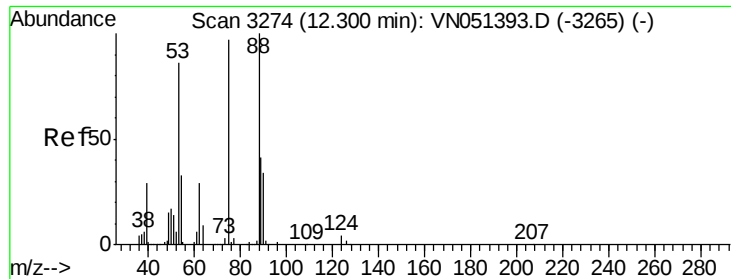
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 106.389 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051600.D

Acq: 27 Sep 2018 22:36

Instrument :

MSVOA_N

ClientSampleId :

TP-2

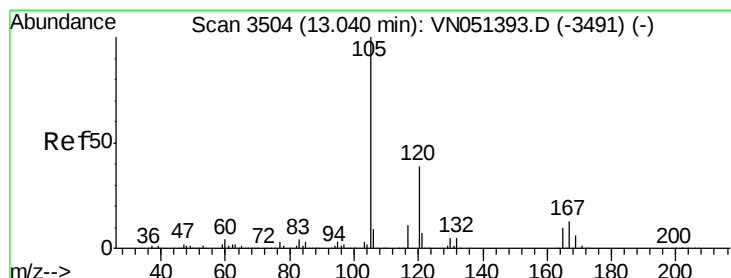
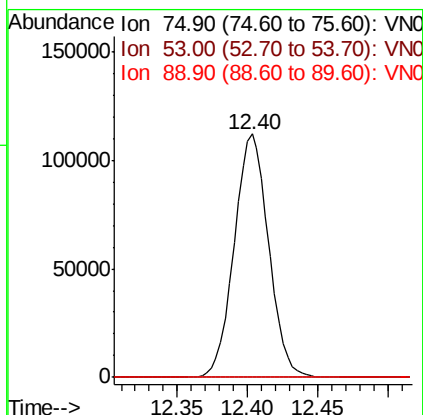
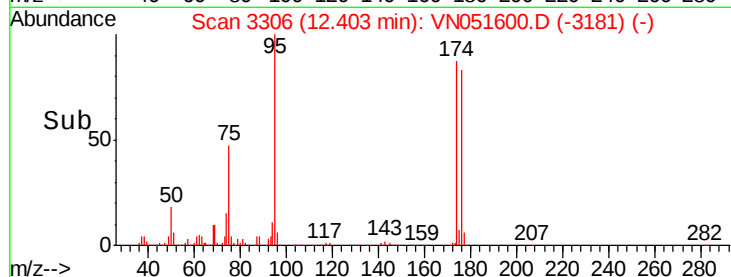
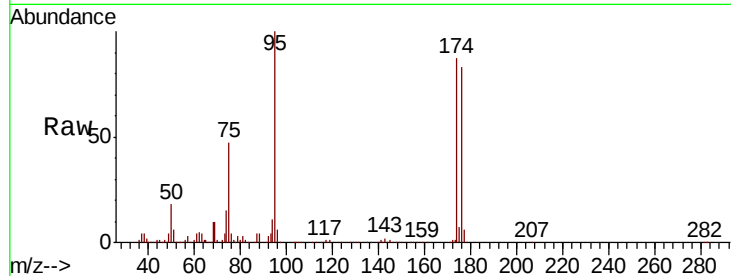
Tot Ion: 75 Resp: 191360

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

89 0.0 36.7 55.1#



#84

1,2,4-Trimethylbenzene

Concen: 0.364 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN051600.D

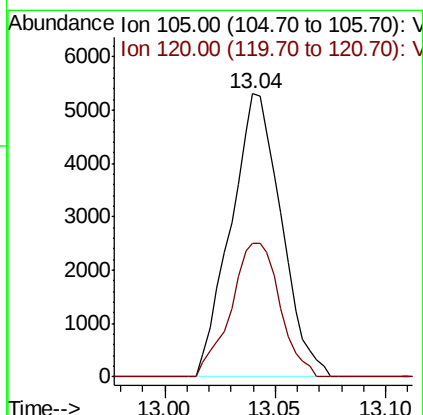
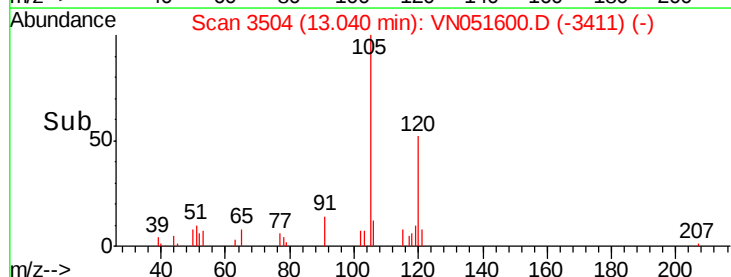
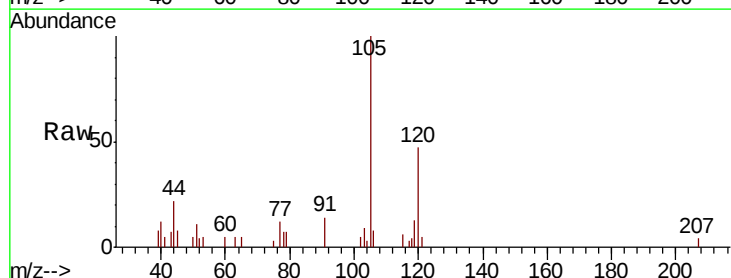
Acq: 27 Sep 2018 22:36

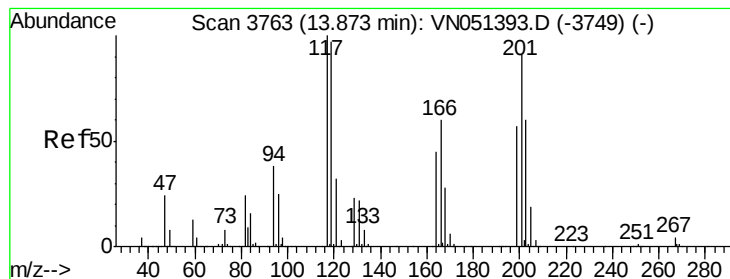
Tgt Ion: 105 Resp: 8410

Ion Ratio Lower Upper

105 100

120 46.0 22.9 68.7





#90

Hexachloroethane

Concen: 0.203 ug/l

RT: 13.89 min Scan# 3769

Delta R.T. 0.02 min

Lab File: VN051600.D

Acq: 27 Sep 2018 22:36

Instrument :

MSVOA_N

ClientSampled :

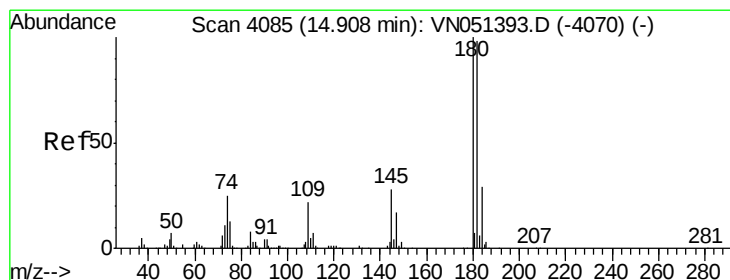
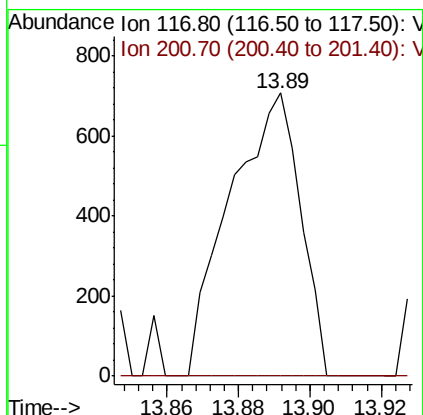
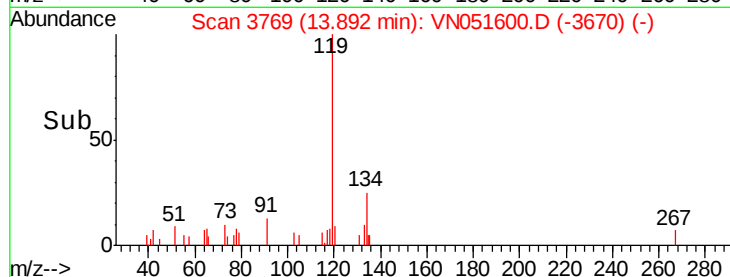
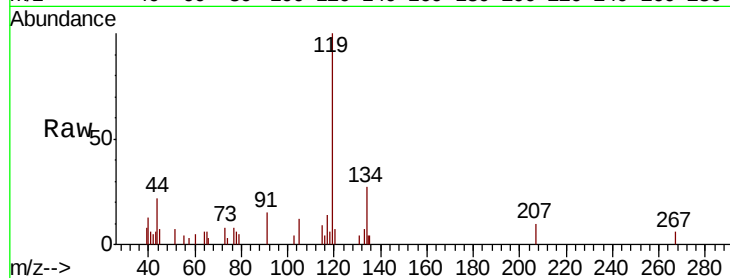
TP-2

Tot Ion:117 Resp: 966

Ion Ratio Lower Upper

117 100

201 0.0 45.5 136.4#



#93

1,2,4-Trichlorobenzene

Concen: 6.064 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.01 min

Lab File: VN051600.D

Acq: 27 Sep 2018 22:36

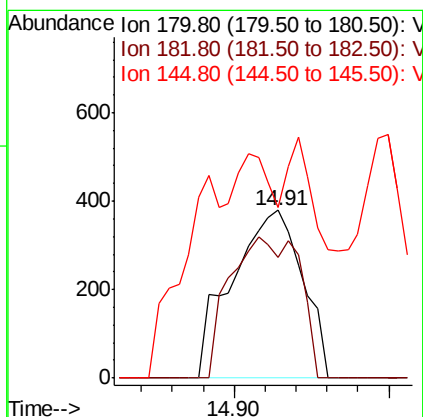
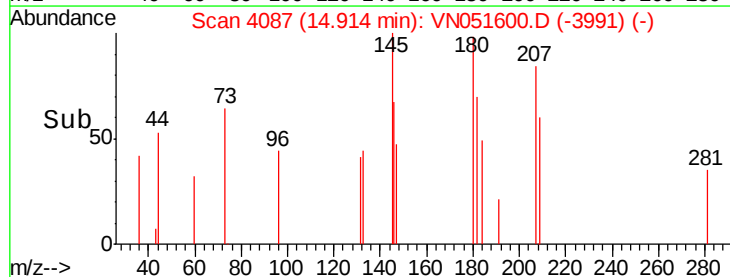
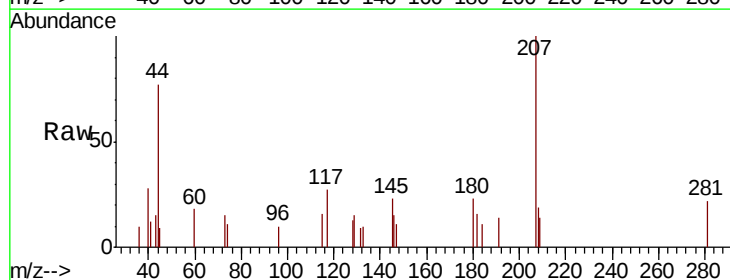
Tgt Ion:180 Resp: 601

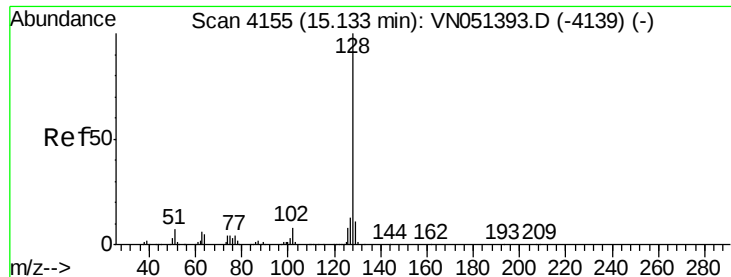
Ion Ratio Lower Upper

180 100

182 0.0 48.5 145.6#

145 76.7 14.1 42.4#





#95
Naphthalene
Concen: 20.282 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.00 min
Lab File: VN051600.D
Acq: 27 Sep 2018 22:36

Instrument :
MSVOA_N
ClientSampleId :
TP-2

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.6	10.5	15.7
129	11.4	8.6	12.8

