

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092718\
 Data File : VN051572.D
 Acq On : 27 Sep 2018 10:11
 Operator : MD\SY
 Sample : J5081-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1-S

Quant Time: Sep 27 11:22:34 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

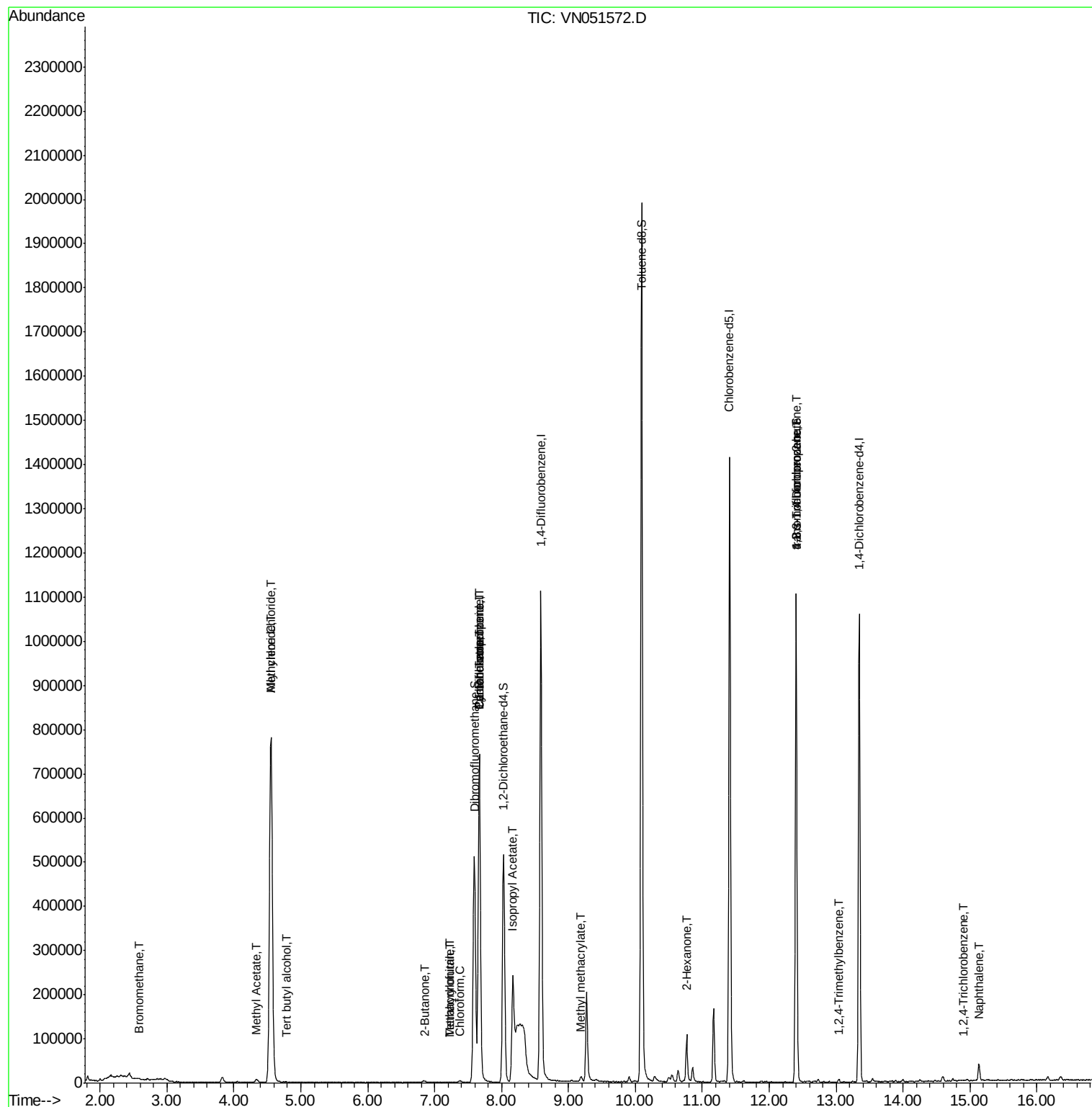
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	633212	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1016318	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	852406	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	302995	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	450371	56.78	ug/l	0.00
Spiked Amount 50.000			Recovery	=	113.56%	
35) Dibromofluoromethane	7.59	113	393151	48.38	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.76%	
50) Toluene-d8	10.09	98	1416810	46.30	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.60%	
62) 4-Bromofluorobenzene	12.40	95	376093	37.99	ug/l	0.00
Spiked Amount 50.000			Recovery	=	75.98%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.58	94	1078	0.232	ug/l	96
8) Diethyl Ether	3.42	74	63	Below Cal	#	1
11) Tert butyl alcohol	4.79	59	986	2.203	ug/l #	78
14) Allyl chloride	4.56	41	24230	2.050	ug/l #	26
16) Acetone	3.82	43	18675	Below Cal		94
18) Methyl Acetate	4.34	43	14676	2.429	ug/l #	57
20) Methylene Chloride	4.55	84	583292	74.312	ug/l	97
25) 2-Butanone	6.85	43	4865	1.792	ug/l	99
29) Tetrahydrofuran	7.23	42	1305	0.758	ug/l #	45
30) Chloroform	7.38	83	4773	0.353	ug/l	93
31) Cyclohexane	7.66	56	12134	0.971	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	47064	3.999	ug/l #	48
38) Carbon Tetrachloride	7.67	117	58989	4.792	ug/l #	17
41) Methacrylonitrile	7.22	41	971	0.259	ug/l #	29
43) Isopropyl Acetate	8.17	43	318357	26.018	ug/l #	90
48) Methyl methacrylate	9.18	41	7267	1.191	ug/l #	21
59) 2-Hexanone	10.76	43	13793	3.162	ug/l	64
76) 1,2,3-Trichloropropane	12.40	75	187443	37.266	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	187443	114.589	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.04	105	4205	0.200	ug/l	98
93) 1,2,4-Trichlorobenzene	14.90	180	110	5.998	ug/l #	59
95) Naphthalene	15.13	128	32248	10.446	ug/l	98

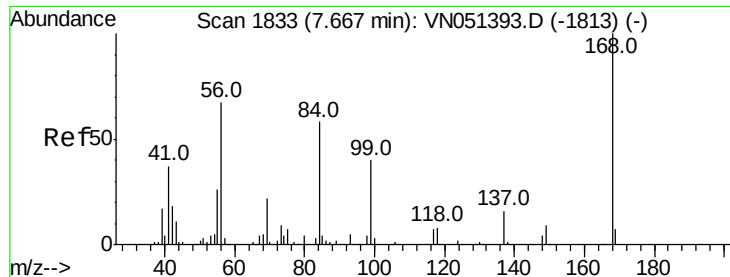
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051572.D

Acq: 27 Sep 2018 10:11

Instrument :

MSVOA_N

ClientSampleId :

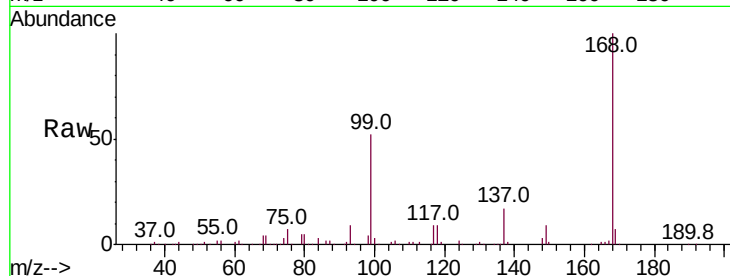
TP-1-S

Tot Ion:168 Resp: 633212

Ion Ratio Lower Upper

168 100

99 52.3 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

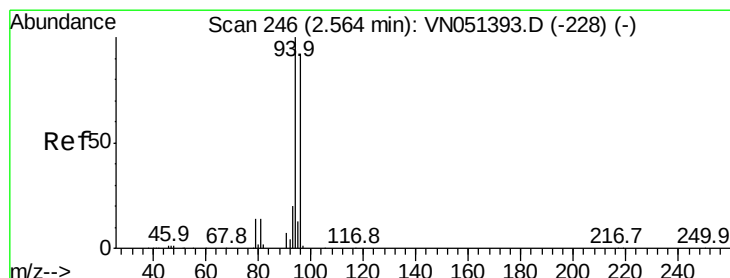
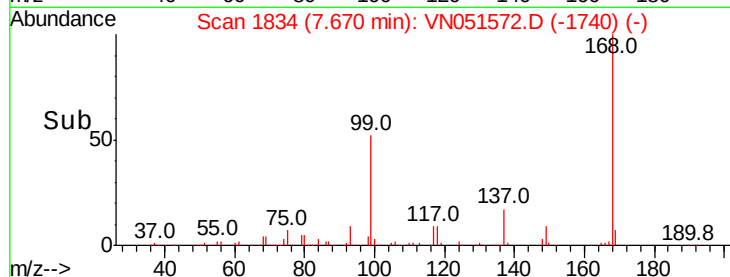
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.232 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN051572.D

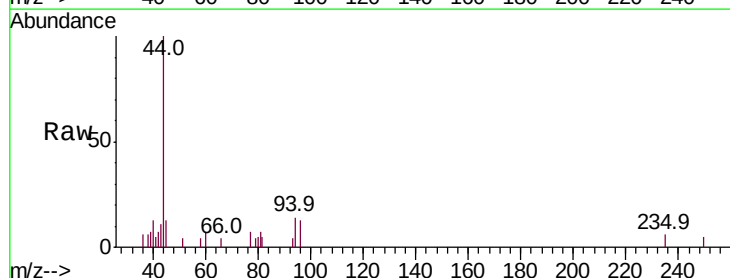
Acq: 27 Sep 2018 10:11

Tgt Ion: 94 Resp: 1078

Ion Ratio Lower Upper

94 100

96 95.4 73.6 110.4



Abundance Ion 93.90 (93.60 to 94.60): VN051393.D (-228) (-)

Ion 95.90 (95.60 to 96.60): VN051393.D (-228) (-)

2.58

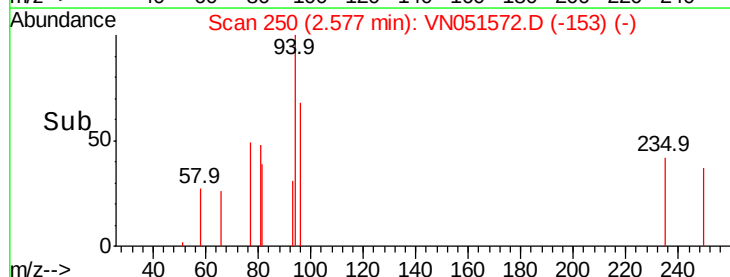
600

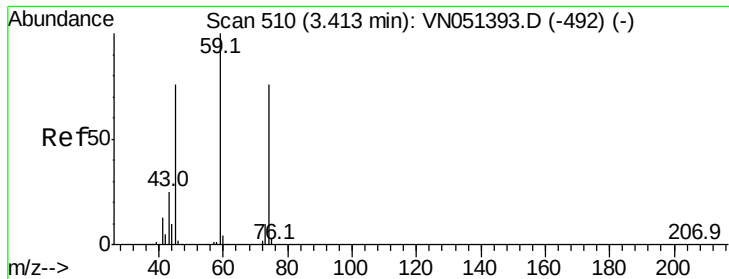
400

200

0

Time-->





#8

Diethyl Ether

Concen: Below Cal

RT: 3.42 min Scan# 511

Delta R.T. 0.00 min

Lab File: VN051572.D

Acq: 27 Sep 2018 10:11

Instrument :

MSVOA_N

ClientSampled :

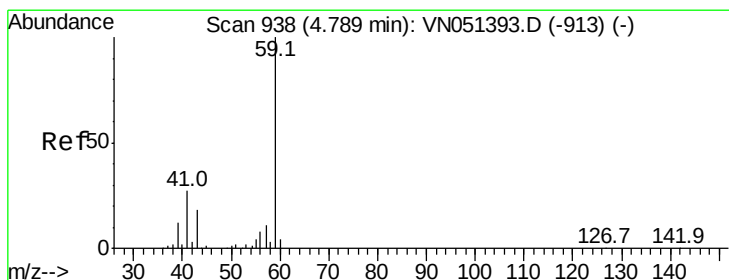
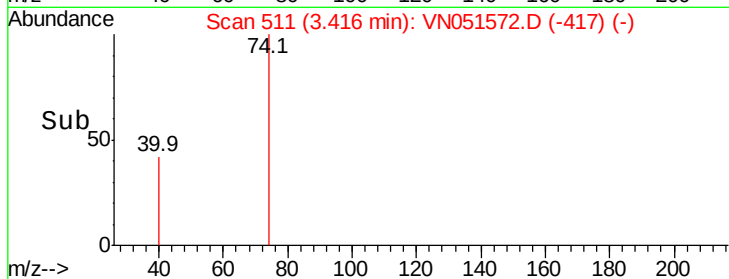
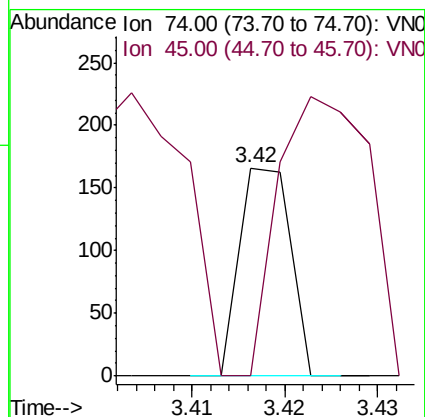
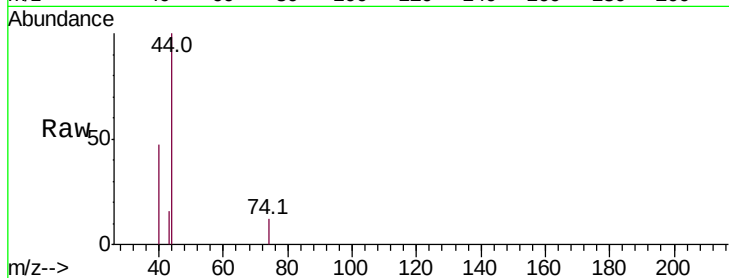
TP-1-S

Tot Ion: 74 Resp: 63

Ion Ratio Lower Upper

74 100

45 241.3 50.2 150.7#



#11

Tert butyl alcohol

Concen: 2.203 ug/l

RT: 4.79 min Scan# 937

Delta R.T. -0.00 min

Lab File: VN051572.D

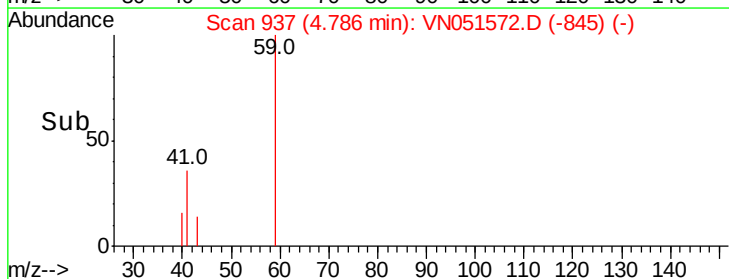
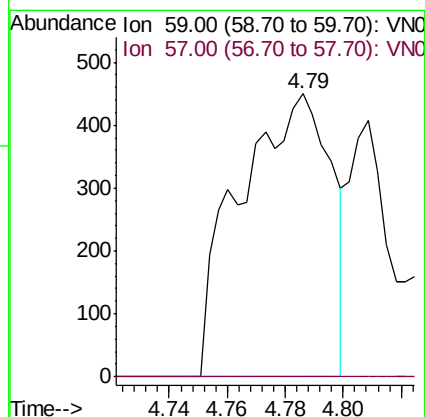
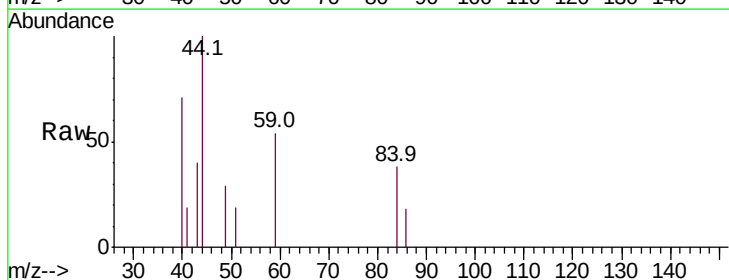
Acq: 27 Sep 2018 10:11

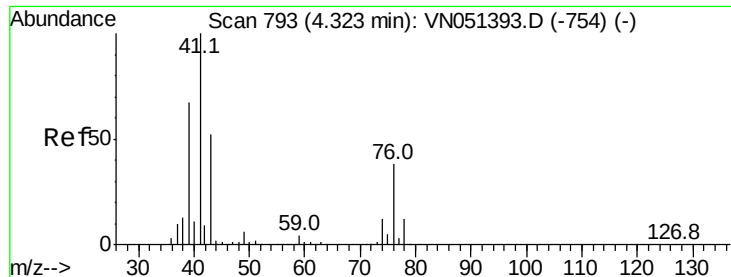
Tgt Ion: 59 Resp: 986

Ion Ratio Lower Upper

59 100

57 0.0 6.2 9.2#

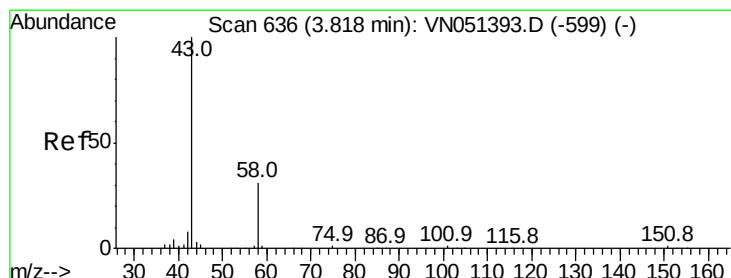
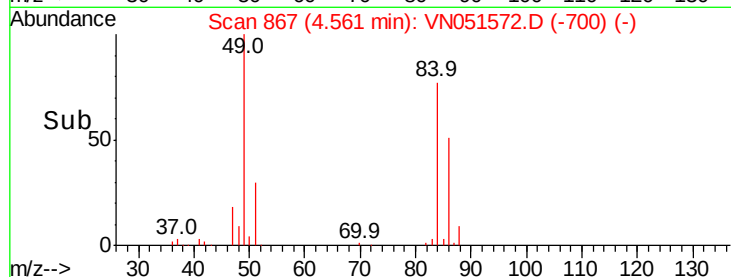
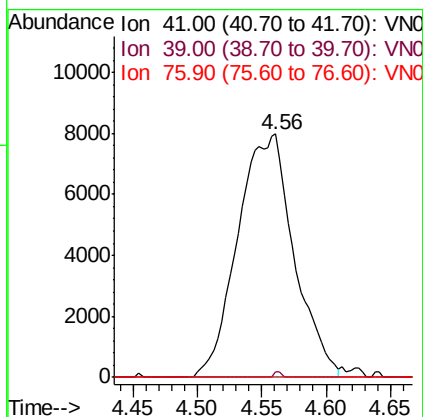
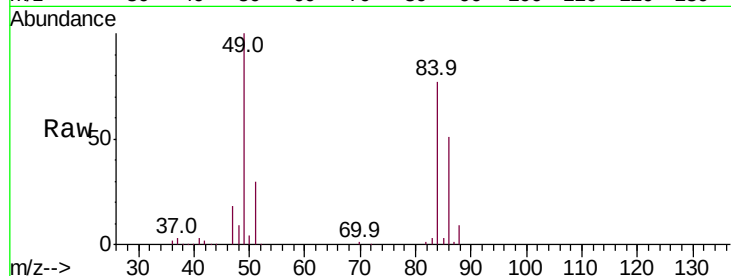




#14
Allvl chloride
Concen: 2.050 ug/l
RT: 4.56 min Scan# 867
Delta R.T. 0.24 min
Lab File: VN051572.D
Acq: 27 Sep 2018 10:11

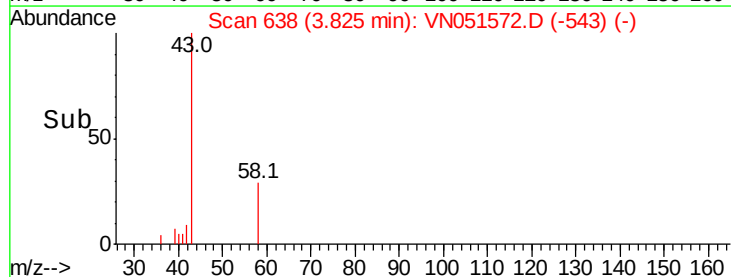
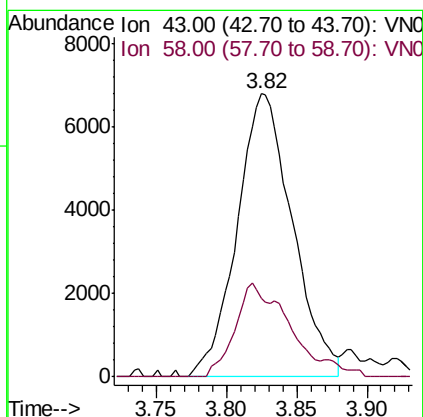
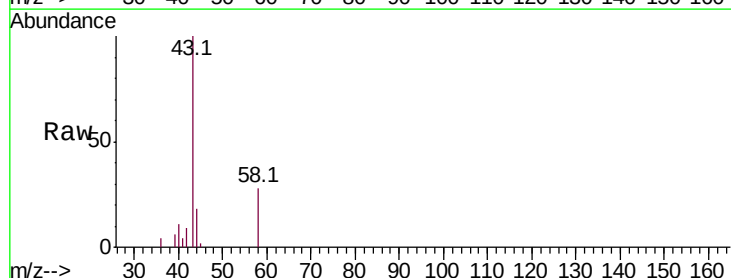
Instrument :
MSVOA_N
ClientSampled :
TP-1-S

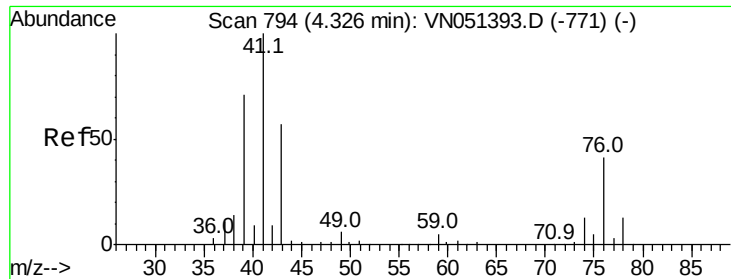
Tot Ion: 41 Resp: 24230
Ion Ratio Lower Upper
41 100
39 0.3 51.4 77.2#
76 0.0 28.1 42.1#



#16
Acetone
Concen: Below Cal
RT: 3.82 min Scan# 638
Delta R.T. 0.01 min
Lab File: VN051572.D
Acq: 27 Sep 2018 10:11

Tgt Ion: 43 Resp: 18675
Ion Ratio Lower Upper
43 100
58 27.8 25.0 37.4

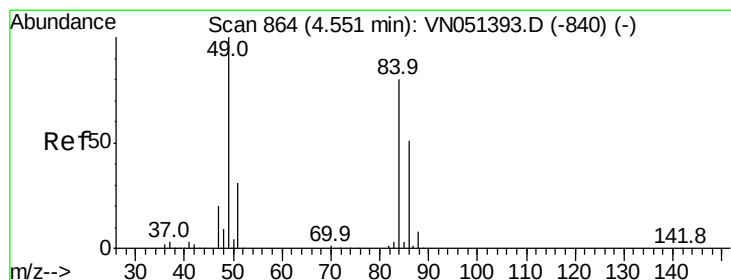
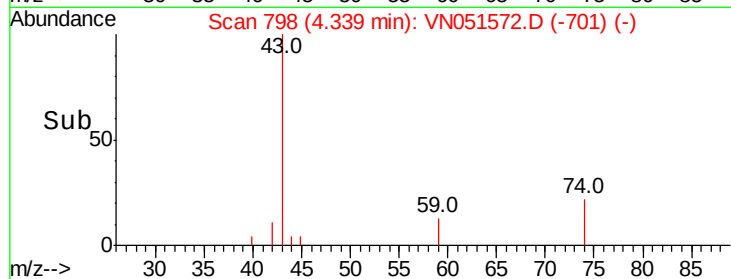
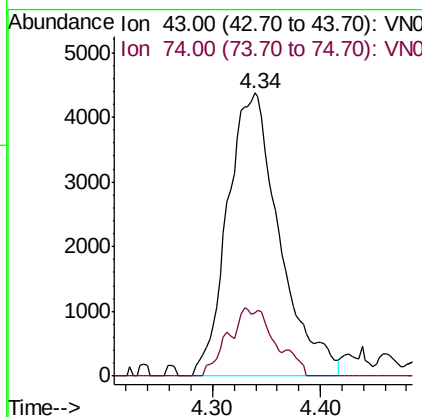
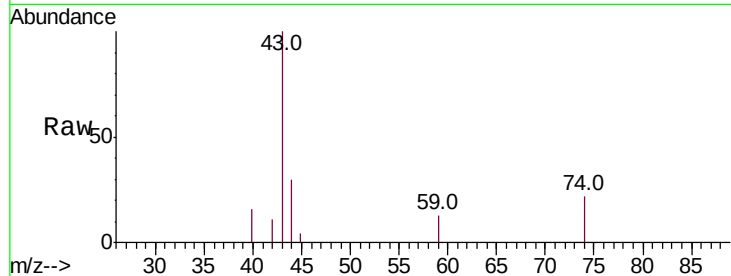




#18
Methvl Acetate
Concen: 2.429 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN051572.D
Acq: 27 Sep 2018 10:11

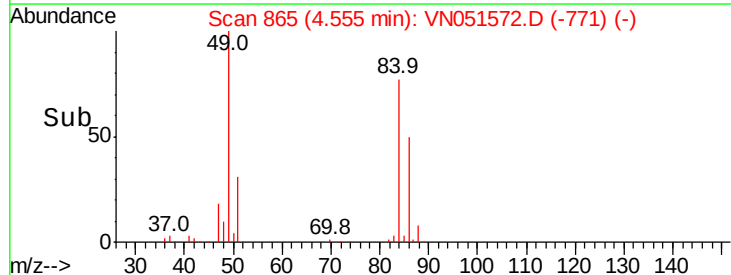
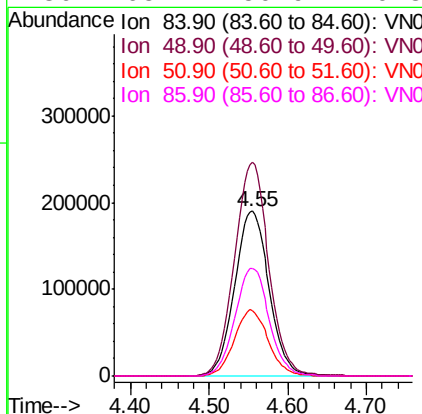
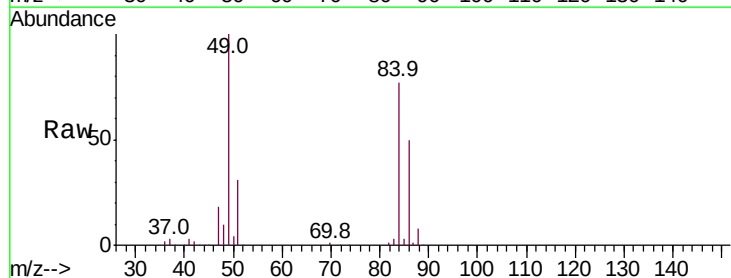
Instrument :
MSVOA_N
ClientSampleId :
TP-1-S

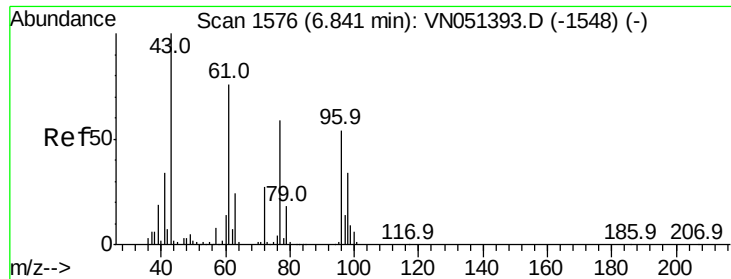
Tot Ion: 43 Resp: 14676
Ion Ratio Lower Upper
43 100
74 2.3 18.8 28.2#



#20
Methylene Chloride
Concen: 74.312 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051572.D
Acq: 27 Sep 2018 10:11

Tgt Ion: 84 Resp: 583292
Ion Ratio Lower Upper
84 100
49 129.6 99.9 149.9
51 39.7 31.4 47.2
86 65.2 50.9 76.3





#25

2-Butanone

Concen: 1.792 ug/l

RT: 6.85 min Scan# 1579

Delta R.T. 0.01 min

Lab File: VN051572.D

Acq: 27 Sep 2018 10:11

Instrument :

MSVOA_N

ClientSampled :

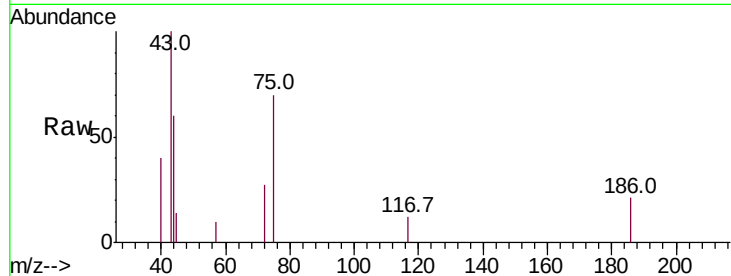
TP-1-S

Tot Ion: 43 Resp: 4865

Ion Ratio Lower Upper

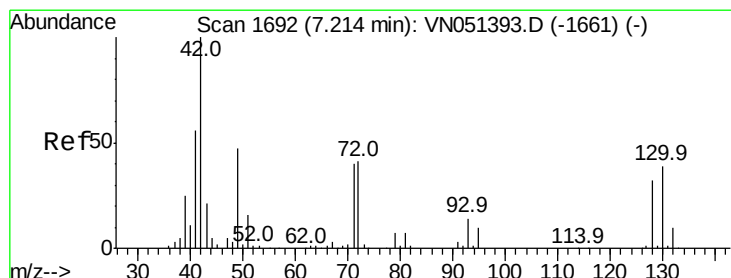
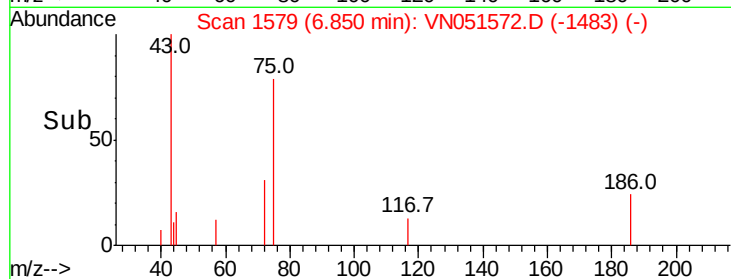
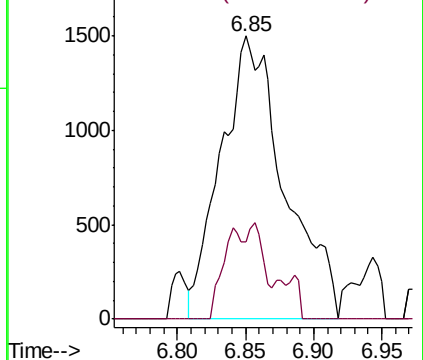
43 100

72 27.5 21.8 32.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 0.758 ug/l

RT: 7.23 min Scan# 1698

Delta R.T. 0.02 min

Lab File: VN051572.D

Acq: 27 Sep 2018 10:11

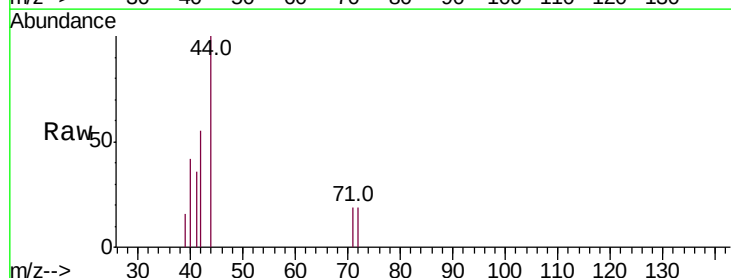
Tgt Ion: 42 Resp: 1305

Ion Ratio Lower Upper

42 100

72 0.0 34.3 51.5#

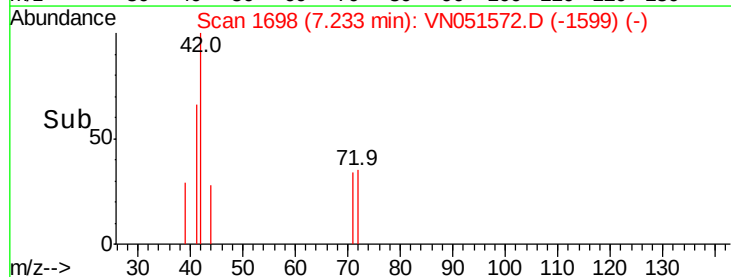
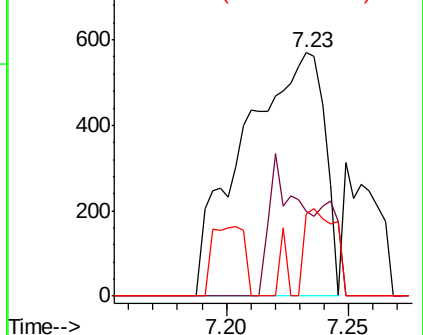
71 13.6 32.2 48.4#

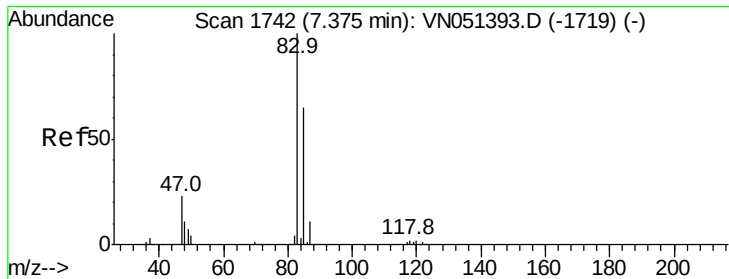


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

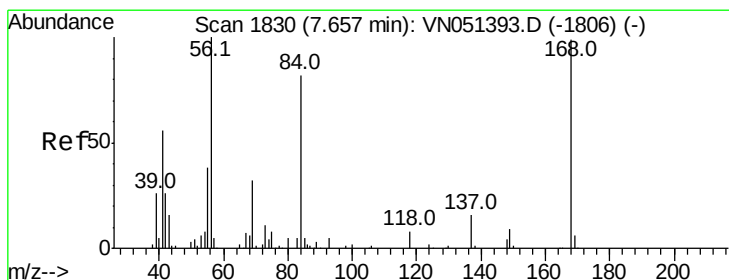
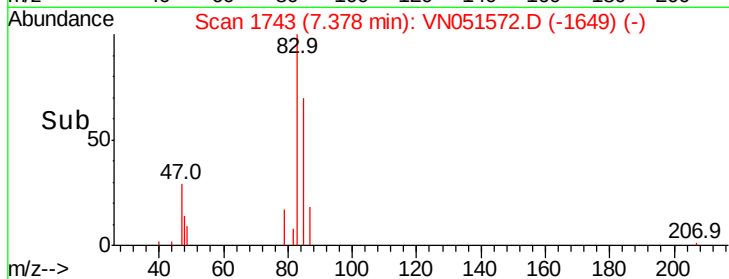
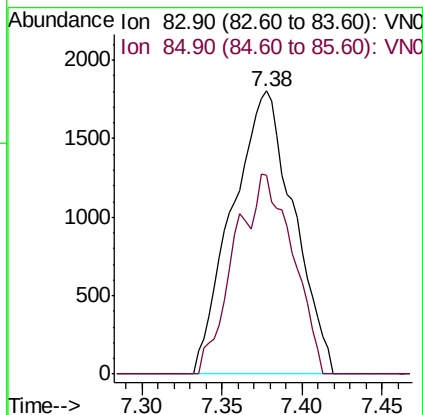
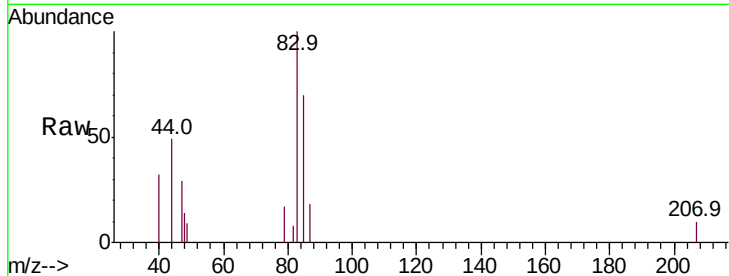




#30
Chloroform
Concen: 0.353 ug/l
RT: 7.38 min Scan# 1743
Delta R.T. 0.00 min
Lab File: VN051572.D
Acq: 27 Sep 2018 10:11

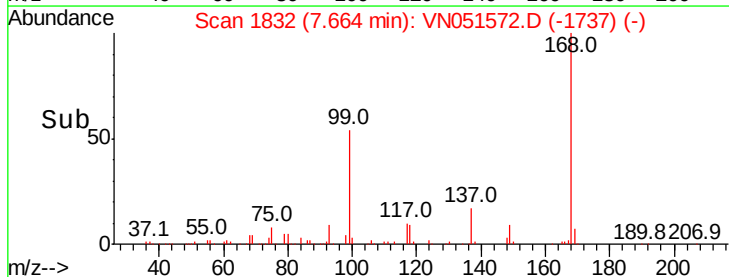
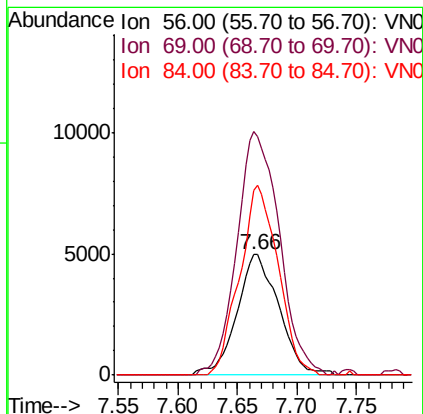
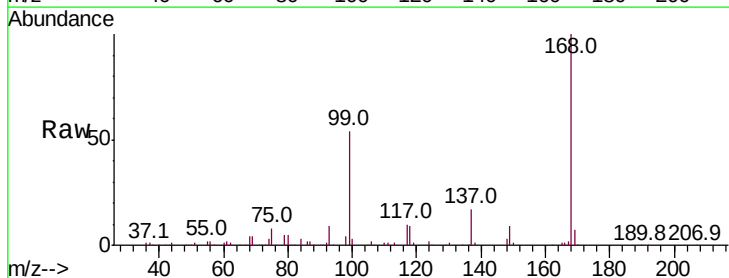
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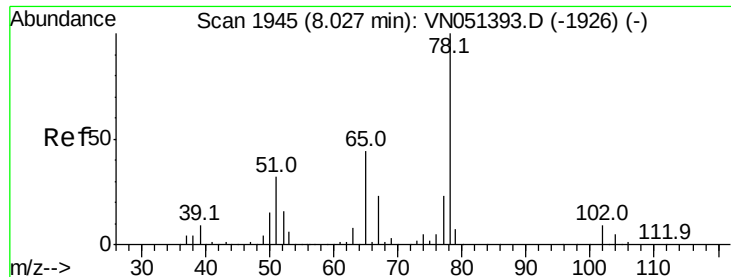
Tot Ion: 83 Resp: 4773
Ion Ratio Lower Upper
83 100
85 70.5 51.8 77.6



#31
Cyclohexane
Concen: 0.971 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN051572.D
Acq: 27 Sep 2018 10:11

Tgt Ion: 56 Resp: 12134
Ion Ratio Lower Upper
56 100
69 202.4 25.8 38.6#
84 153.3 66.0 99.0#

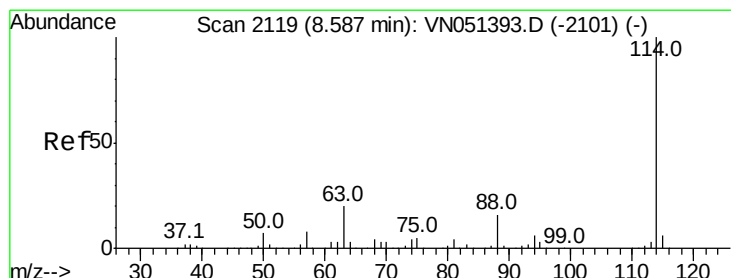
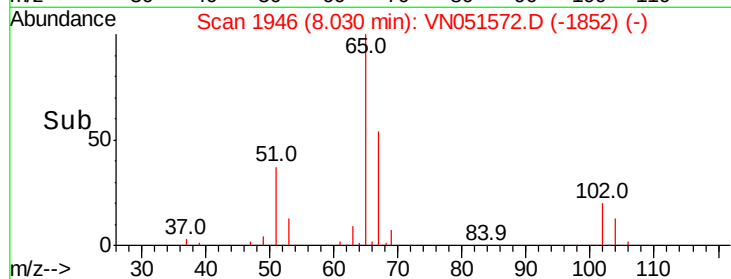
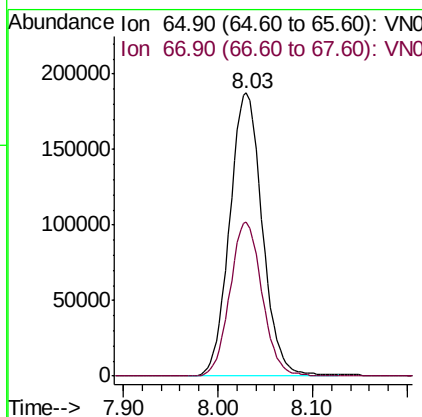
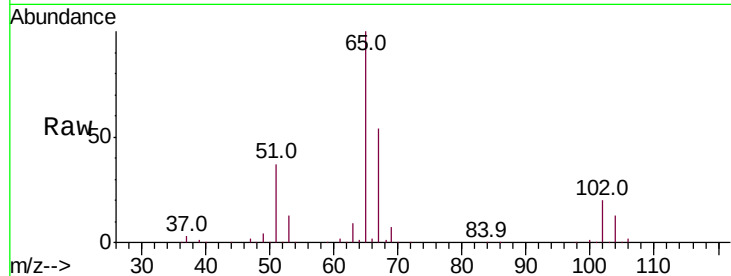




#33
 1,2-Dichloroethane-d4
 Concen: 56.778 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051572.D
 Acq: 27 Sep 2018 10:11

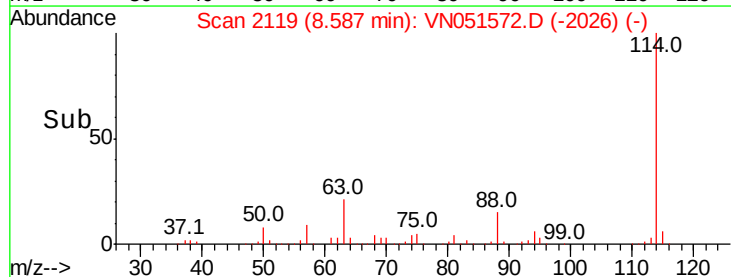
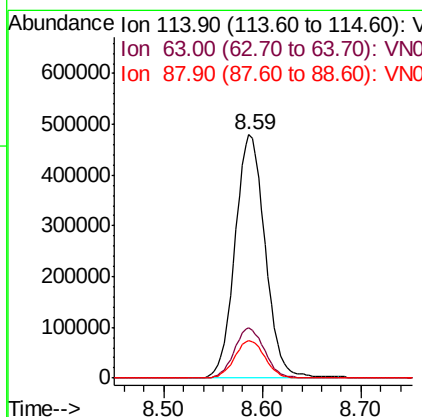
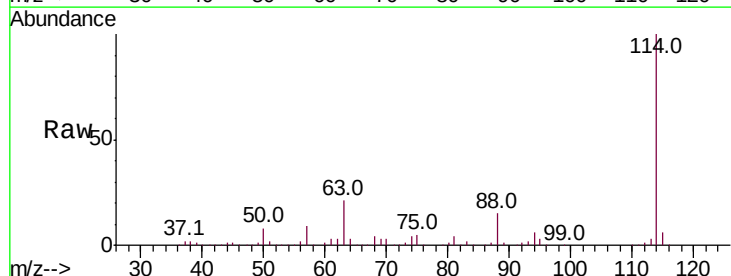
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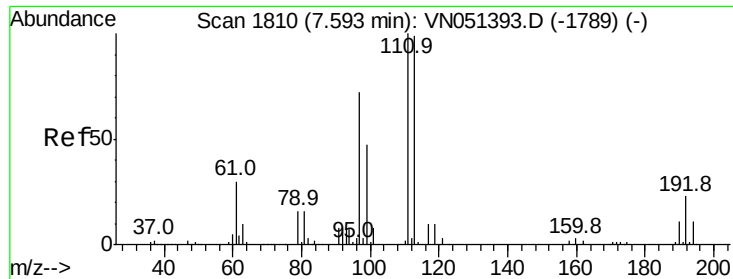
Tot Ion: 65 Resp: 450371
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051572.D
 Acq: 27 Sep 2018 10:11

Tgt Ion: 114 Resp: 1016318
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 40.2
 88 15.4 0.0 31.4

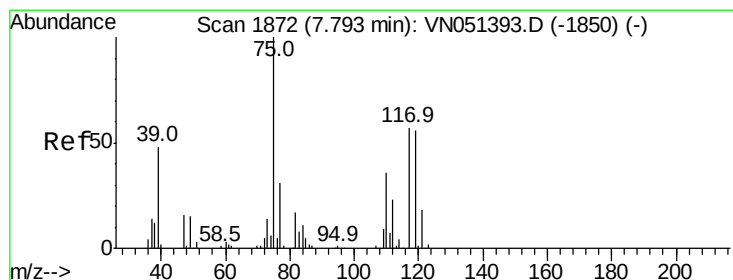
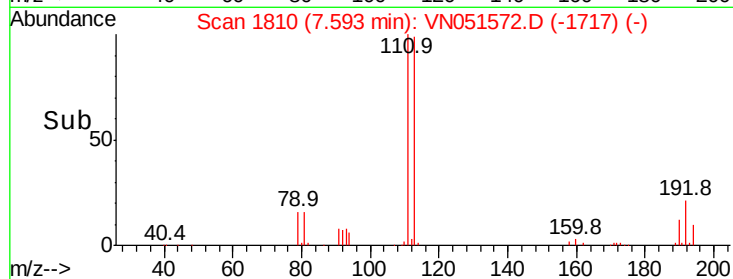
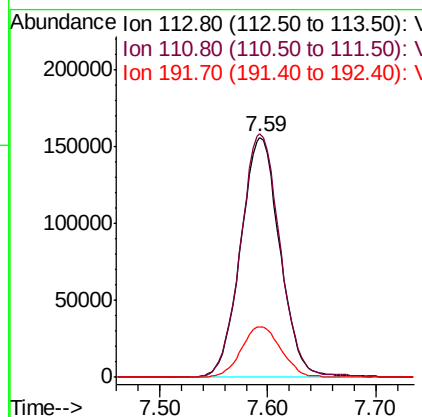
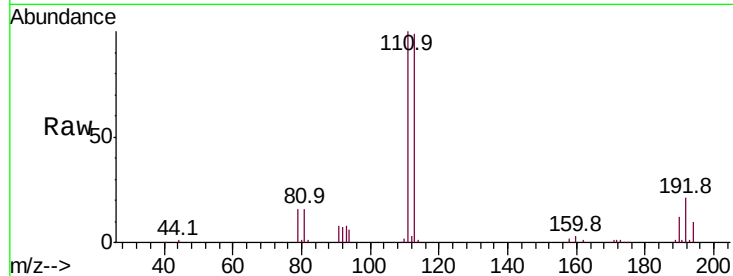




#35
 Dibromofluoromethane
 Concen: 48.376 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051572.D
 Acq: 27 Sep 2018 10:11

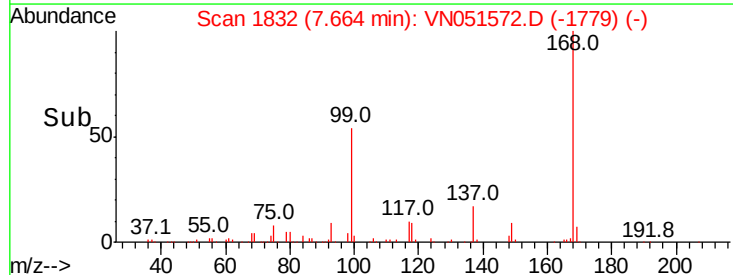
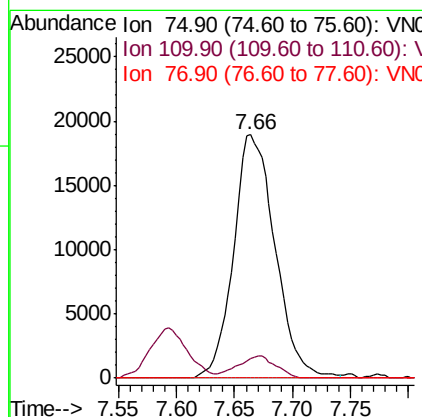
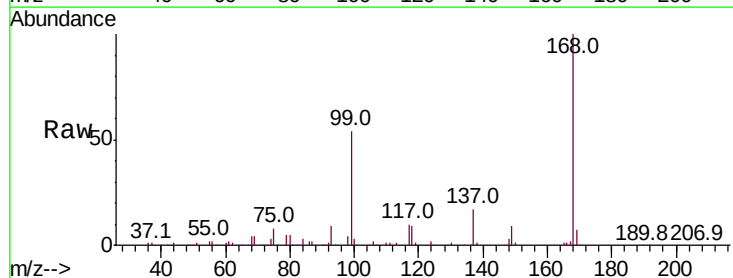
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1-S

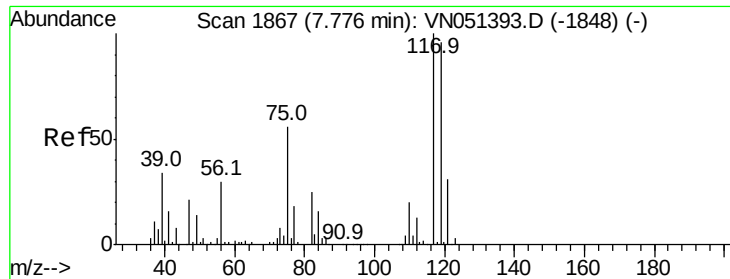
Tot Ion:113 Resp: 393151
 Ion Ratio Lower Upper
 113 100
 111 102.4 82.6 123.8
 192 21.6 18.0 27.0



#36
 1,1-Dichloropropene
 Concen: 3.999 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN051572.D
 Acq: 27 Sep 2018 10:11

Tgt Ion: 75 Resp: 47064
 Ion Ratio Lower Upper
 75 100
 110 8.5 18.1 54.3#
 77 0.0 25.6 38.4#

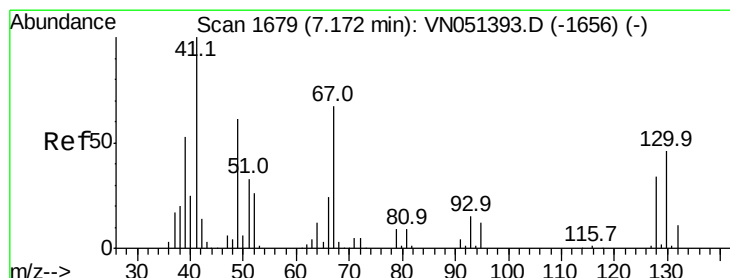
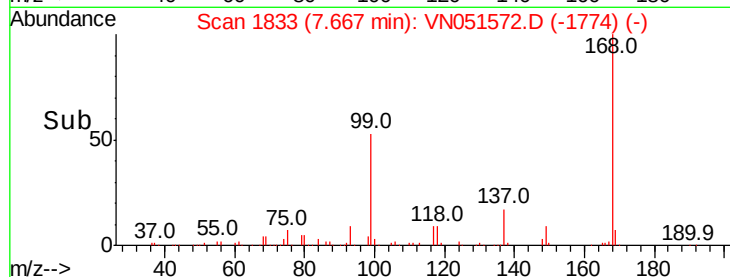
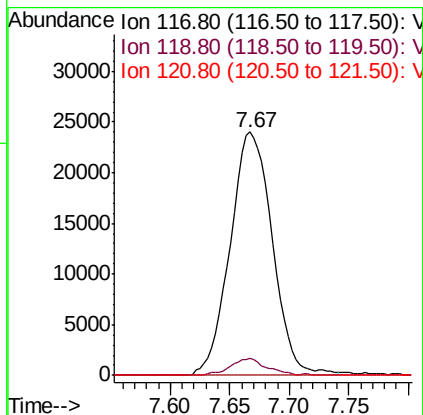
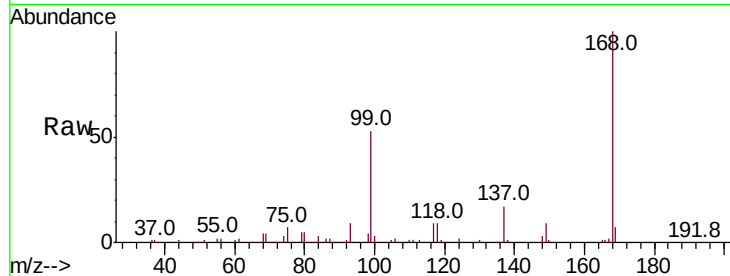




#38
Carbon Tetrachloride
Concen: 4.792 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN051572.D
Acq: 27 Sep 2018 10:11

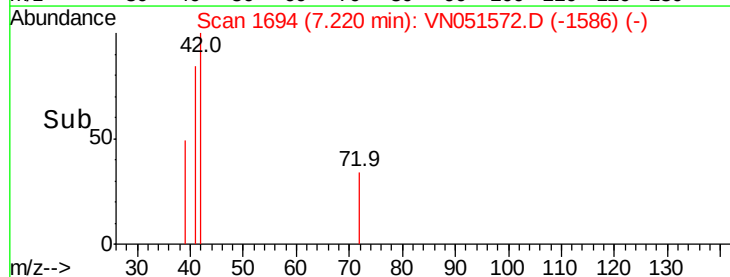
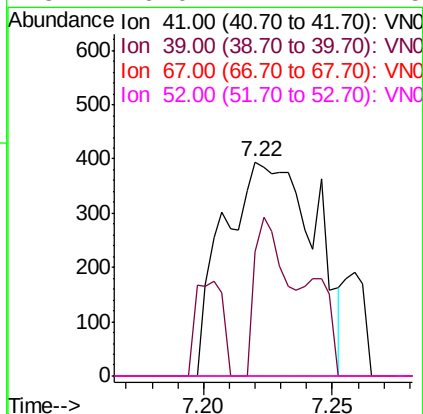
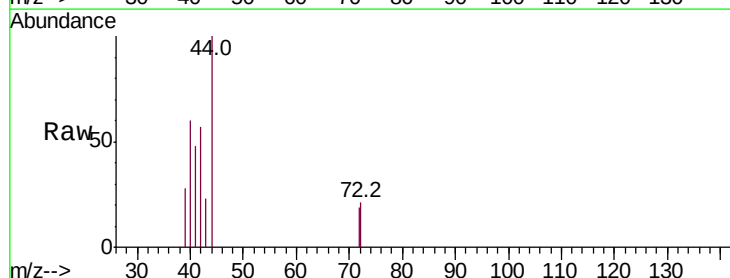
Instrument :
MSVOA_N
ClientSampled :
TP-1-S

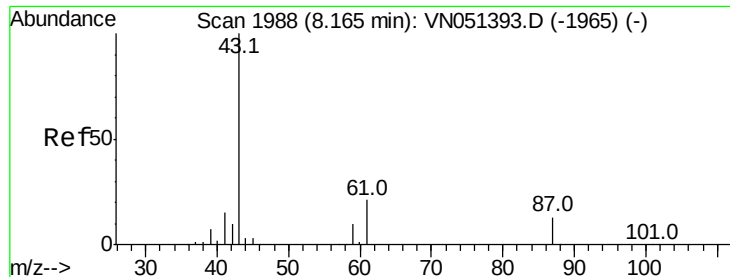
Tot Ion:117 Resp: 58989
Ion Ratio Lower Upper
117 100
119 7.0 76.9 115.3#
121 0.0 24.6 37.0#



#41
Methacrylonitrile
Concen: 0.259 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.05 min
Lab File: VN051572.D
Acq: 27 Sep 2018 10:11

Tgt Ion: 41 Resp: 971
Ion Ratio Lower Upper
41 100
39 26.2 51.4 77.2#
67 0.0 66.8 100.2#
52 0.0 27.7 41.5#





#43

Isopropyl Acetate

Concen: 26.018 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051572.D

Acq: 27 Sep 2018 10:11

Instrument :

MSVOA_N

ClientSampleId :

TP-1-S

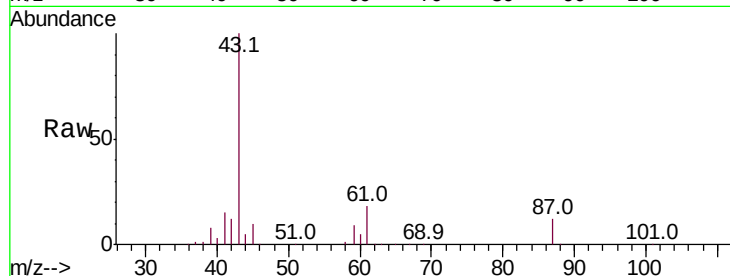
Tot Ion: 43 Resp: 318357

Ion Ratio Lower Upper

43 100

61 16.1 16.8 25.2#

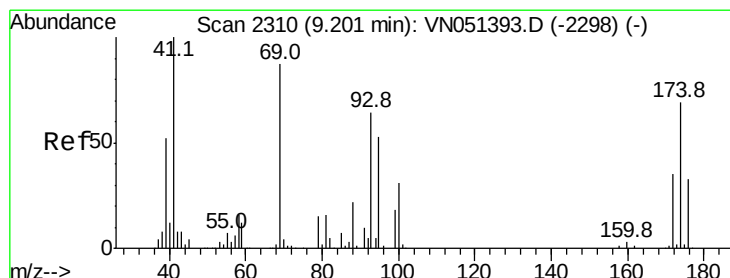
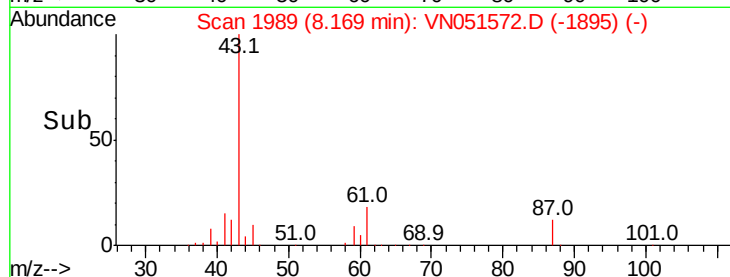
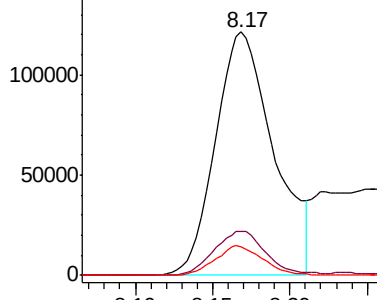
87 10.0 10.7 16.1#



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: 1.191 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN051572.D

Acq: 27 Sep 2018 10:11

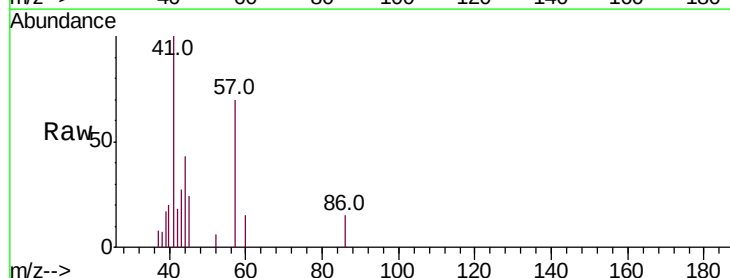
Tgt Ion: 41 Resp: 7267

Ion Ratio Lower Upper

41 100

69 0.0 70.4 105.6#

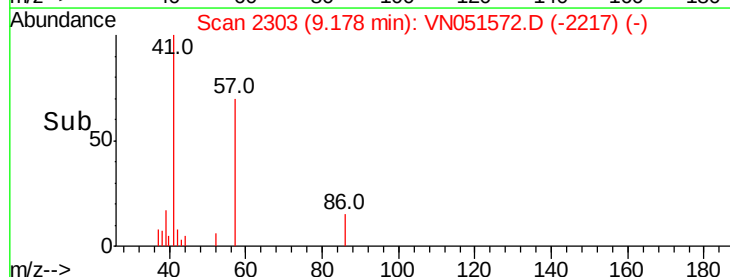
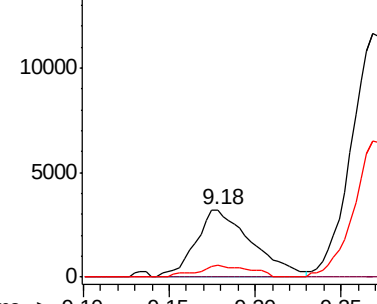
39 16.2 43.8 65.8#

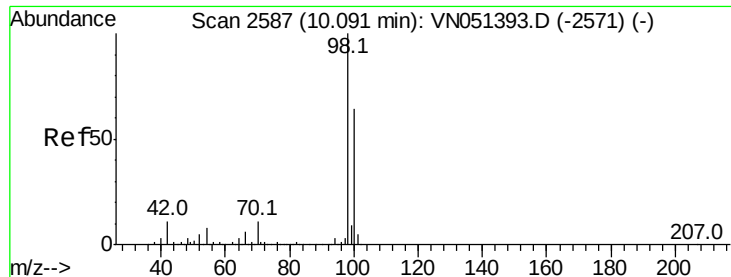


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

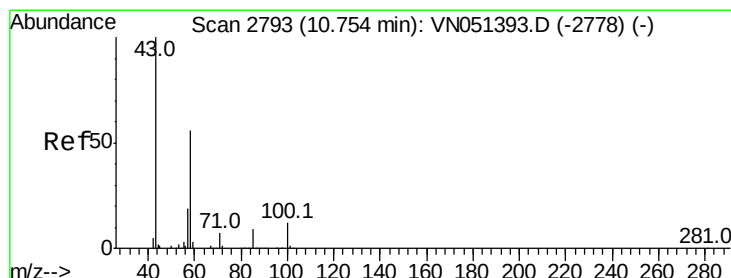
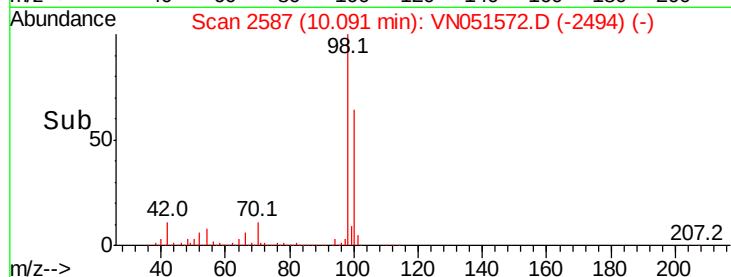
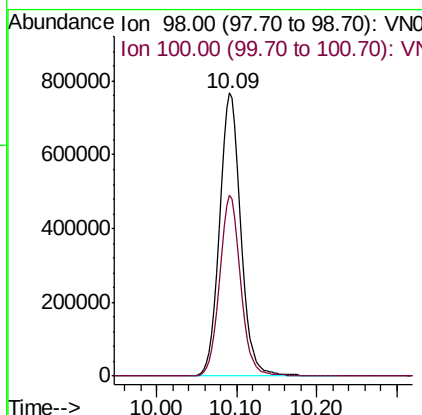
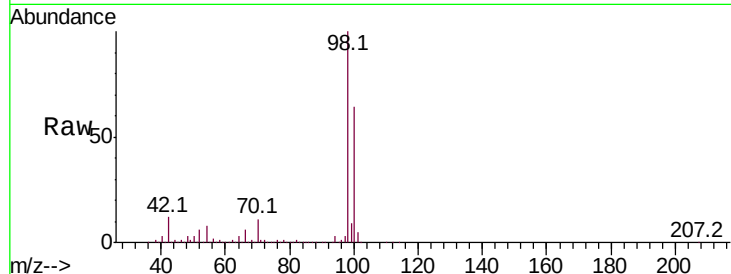




#50
Toluene-d8
Concen: 46.296 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051572.D
Acq: 27 Sep 2018 10:11

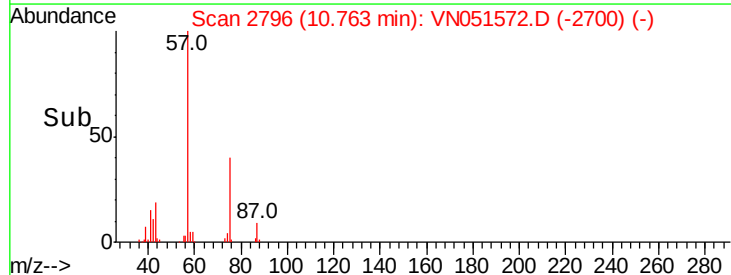
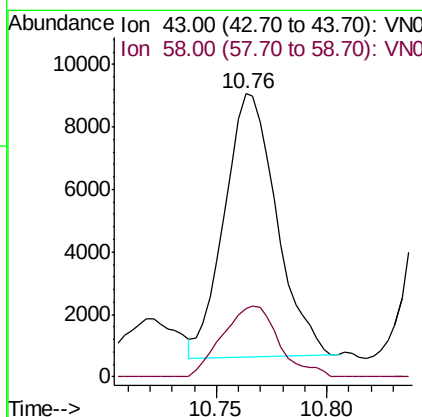
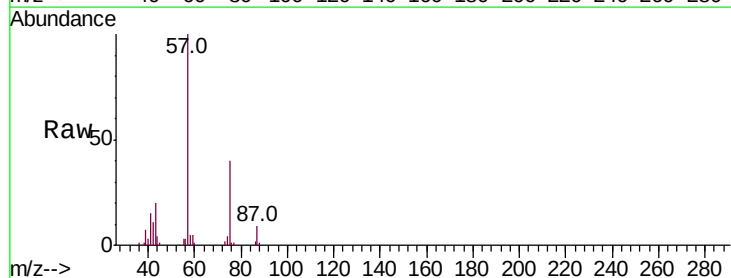
Instrument :
MSVOA_N
ClientSampled :
TP-1-S

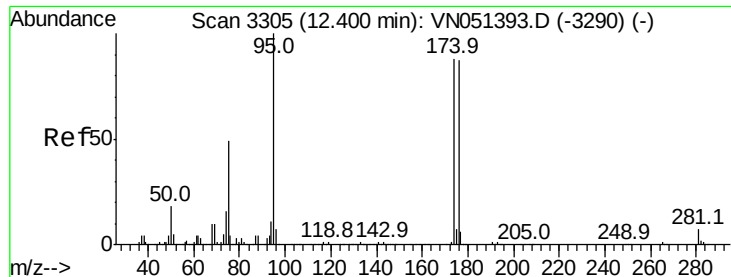
Tot Ion: 98 Resp: 1416810
Ion Ratio Lower Upper
98 100
100 63.3 50.6 75.8



#59
2-Hexanone
Concen: 3.162 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN051572.D
Acq: 27 Sep 2018 10:11

Tgt Ion: 43 Resp: 13793
Ion Ratio Lower Upper
43 100
58 29.3 27.7 83.0





#62

4-Bromofluorobenzene

Concen: 37.988 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051572.D

Acq: 27 Sep 2018 10:11

Instrument :

MSVOA_N

ClientSampleId :

TP-1-S

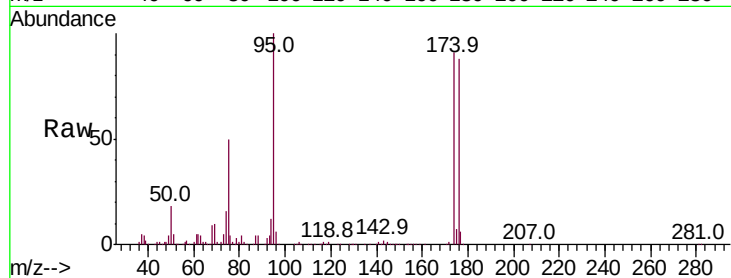
Tot Ion: 95 Resp: 376093

Ion Ratio Lower Upper

95 100

174 89.7 0.0 181.6

176 86.1 0.0 176.4



Abundance Ion 94.90 (94.60 to 95.60): VN051393.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN051393.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN051393.D (-3290) (-)

12.40

200000

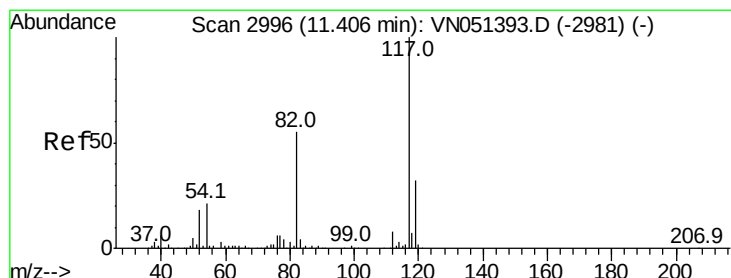
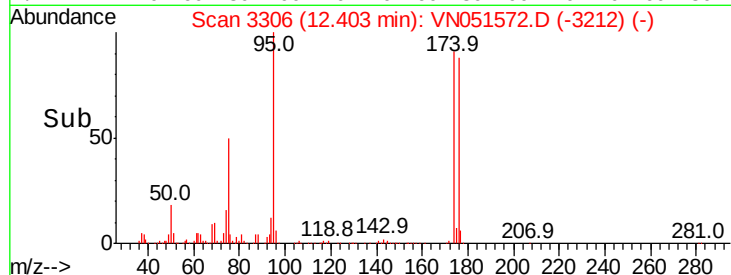
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051572.D

Acq: 27 Sep 2018 10:11

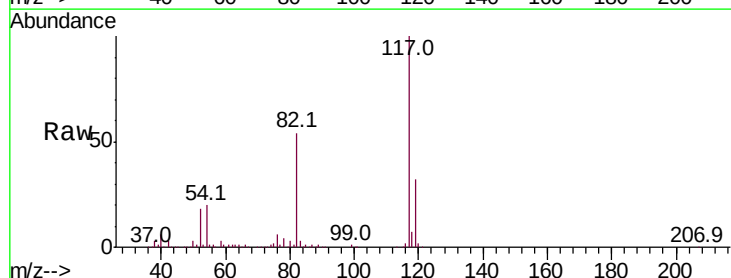
Tgt Ion: 117 Resp: 852406

Ion Ratio Lower Upper

117 100

82 54.4 44.2 66.2

119 32.2 25.9 38.9



Abundance Ion 116.90 (116.60 to 117.60): VN051393.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN051393.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN051393.D (-2981) (-)

11.41

600000

500000

400000

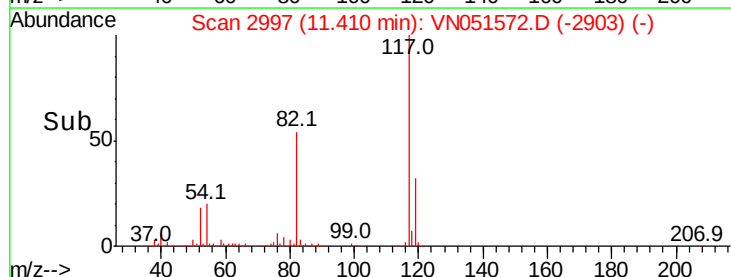
300000

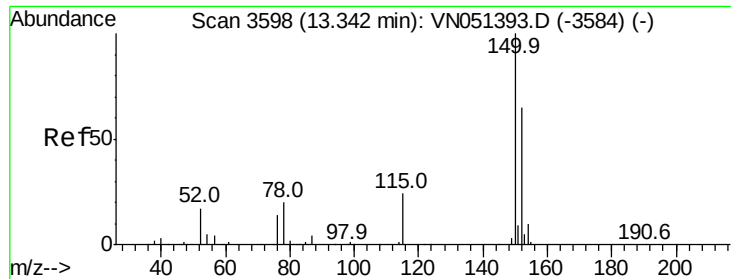
200000

100000

0

Time--> 11.30 11.40 11.50





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051572.D

Acq: 27 Sep 2018 10:11

Instrument :

MSVOA_N

ClientSampleId :

TP-1-S

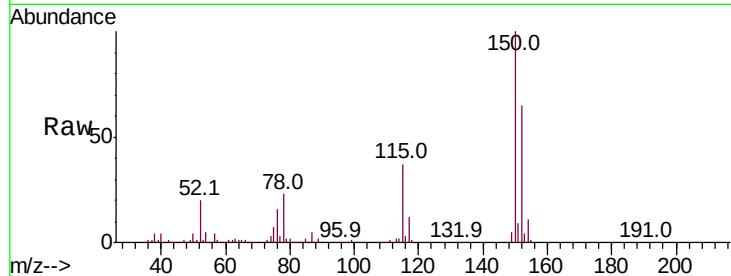
Tot Ion:152 Resp: 302995

Ion Ratio Lower Upper

152 100

115 56.9 28.3 84.9

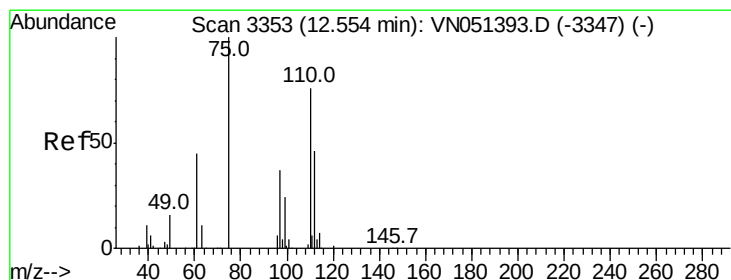
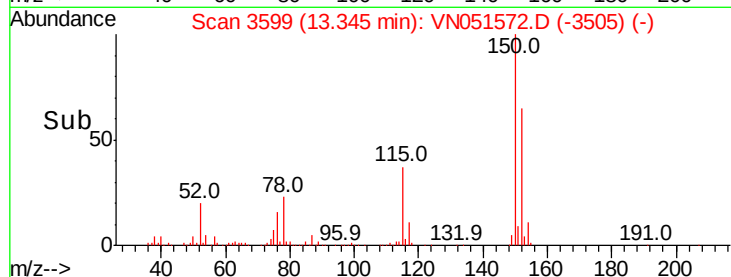
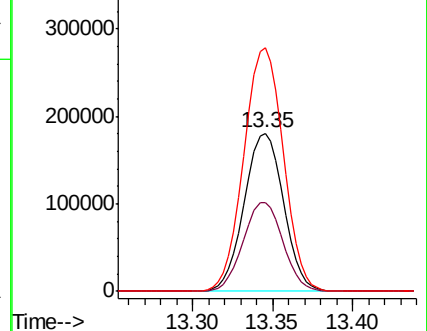
150 155.1 0.0 353.6



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: 37.266 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN051572.D

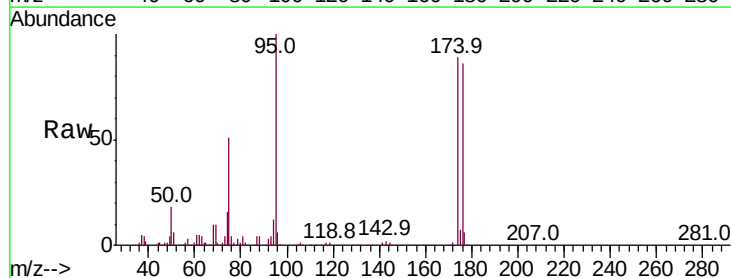
Acq: 27 Sep 2018 10:11

Tgt Ion: 75 Resp: 187443

Ion Ratio Lower Upper

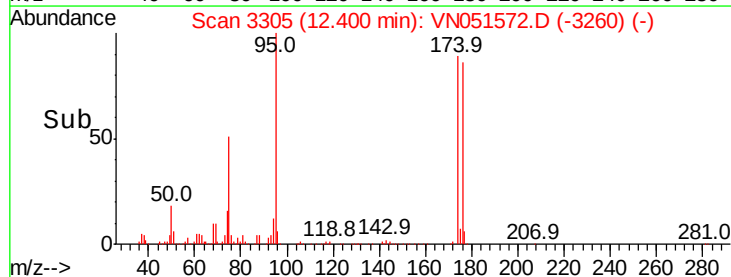
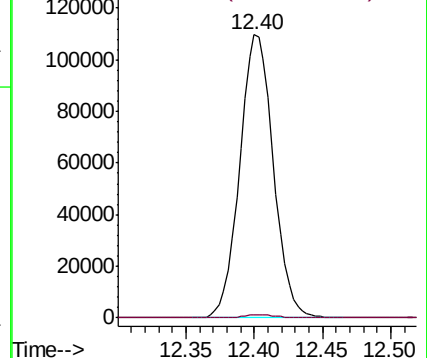
75 100

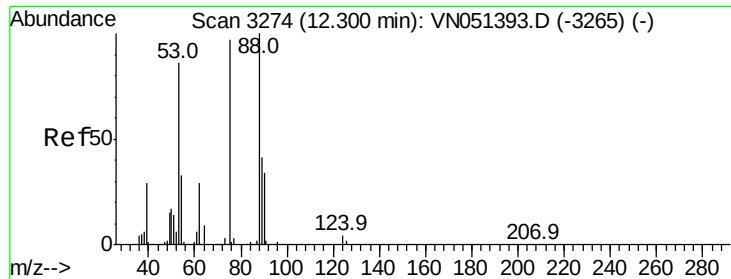
77 1.2 0.0 0.0#



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: 114.589 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051572.D

Acq: 27 Sep 2018 10:11

Instrument :

MSVOA_N

ClientSampled :

TP-1-S

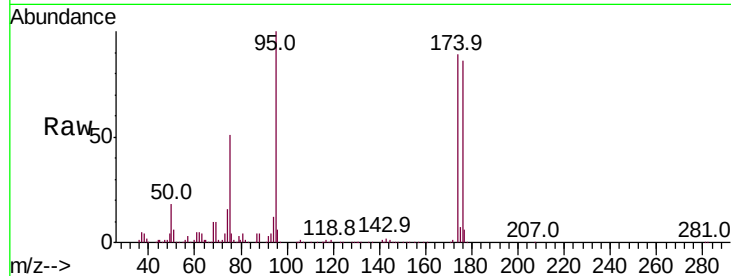
Tot Ion: 75 Resp: 187443

Ion Ratio Lower Upper

75 100

53 0.4 73.9 110.9#

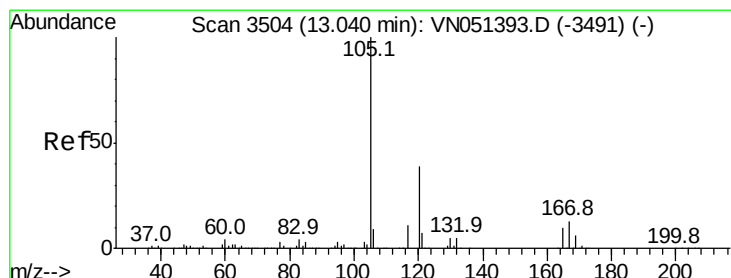
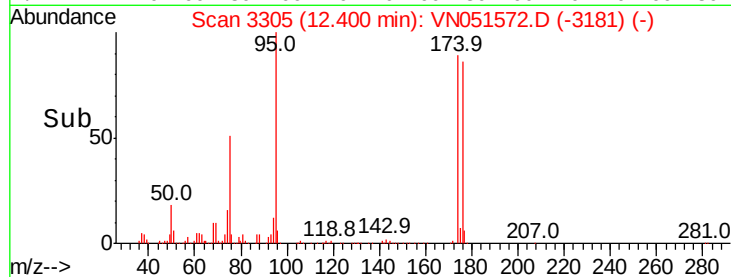
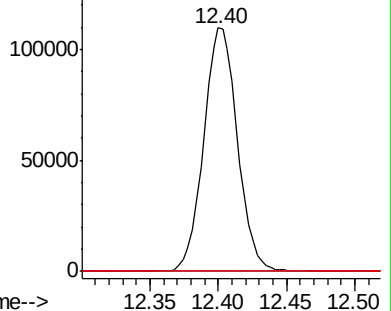
89 0.0 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VN051393.D (-3265) (-)

Ion 53.00 (52.70 to 53.70): VN051393.D (-3265) (-)

Ion 88.90 (88.60 to 89.60): VN051393.D (-3265) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.200 ug/l

RT: 13.04 min Scan# 3505

Delta R.T. 0.00 min

Lab File: VN051572.D

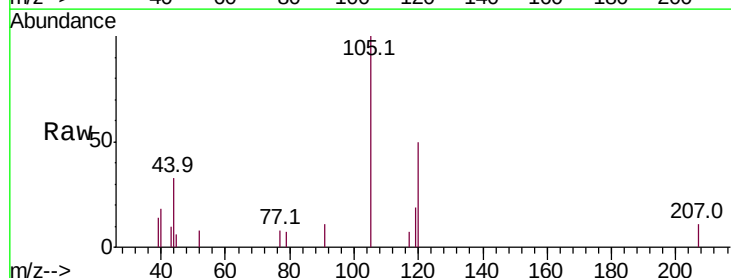
Acq: 27 Sep 2018 10:11

Tgt Ion: 105 Resp: 4205

Ion Ratio Lower Upper

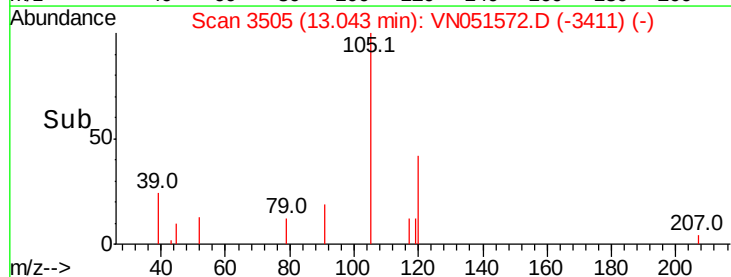
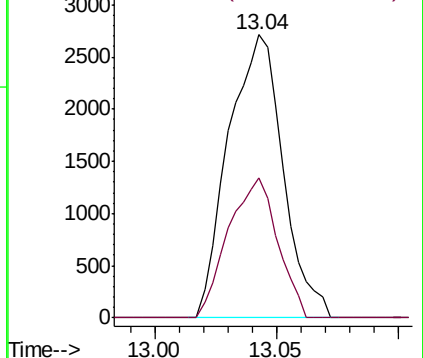
105 100

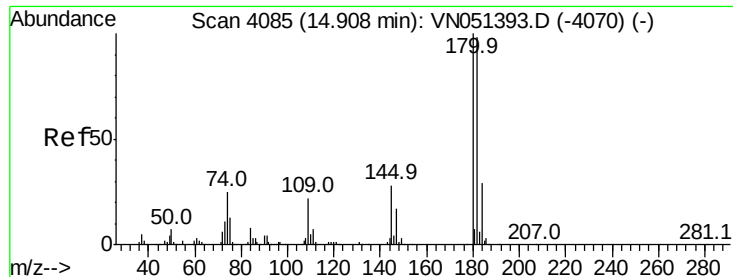
120 44.8 22.9 68.7



Abundance Ion 105.00 (104.70 to 105.70): VN051393.D (-3491) (-)

Ion 120.00 (119.70 to 120.70): VN051393.D (-3491) (-)

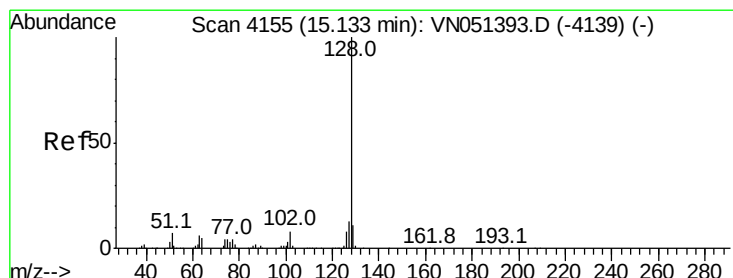
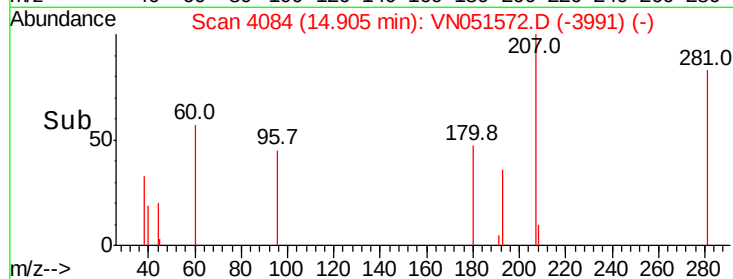
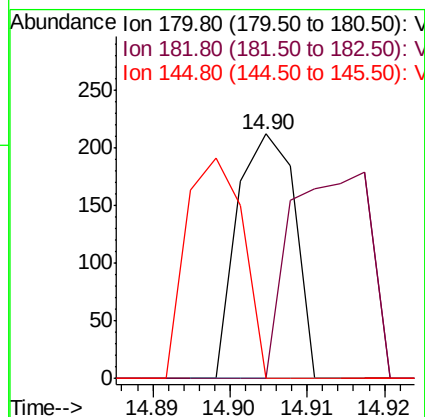
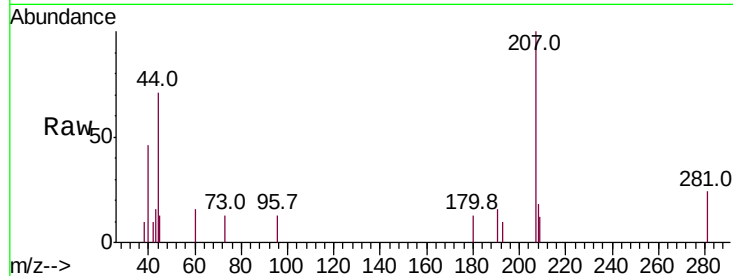




#93
 1,2,4-Trichlorobenzene
 Concen: 5.998 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. -0.00 min
 Lab File: VN051572.D
 Acq: 27 Sep 2018 10:11

Instrument :
 MSVOA_N
 ClientSampled :
 TP-1-S

Tot Ion:180 Resp: 110
 Ion Ratio Lower Upper
 180 100
 182 117.3 48.5 145.6
 145 88.2 14.1 42.4#



#95
 Naphthalene
 Concen: 10.446 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. -0.00 min
 Lab File: VN051572.D
 Acq: 27 Sep 2018 10:11

Tgt Ion:128 Resp: 32248
 Ion Ratio Lower Upper
 128 100
 127 14.0 10.5 15.7
 129 11.2 8.6 12.8

