

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092418\
 Data File : VN051470.D
 Acq On : 24 Sep 2018 18:49
 Operator : MD\SY
 Sample : J4770-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 JC-02-092118-C

Quant Time: Sep 25 02:01:36 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	670988	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1018276	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	846572	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	304857	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	450305	53.57	ug/l	0.00
Spiked Amount			Recovery	=	107.14%	
35) Dibromofluoromethane	7.59	113	392824	48.24	ug/l	0.00
Spiked Amount			Recovery	=	96.48%	
50) Toluene-d8	10.09	98	1436273	46.84	ug/l	0.00
Spiked Amount			Recovery	=	93.68%	
62) 4-Bromofluorobenzene	12.40	95	381383	38.45	ug/l	0.00
Spiked Amount			Recovery	=	76.90%	

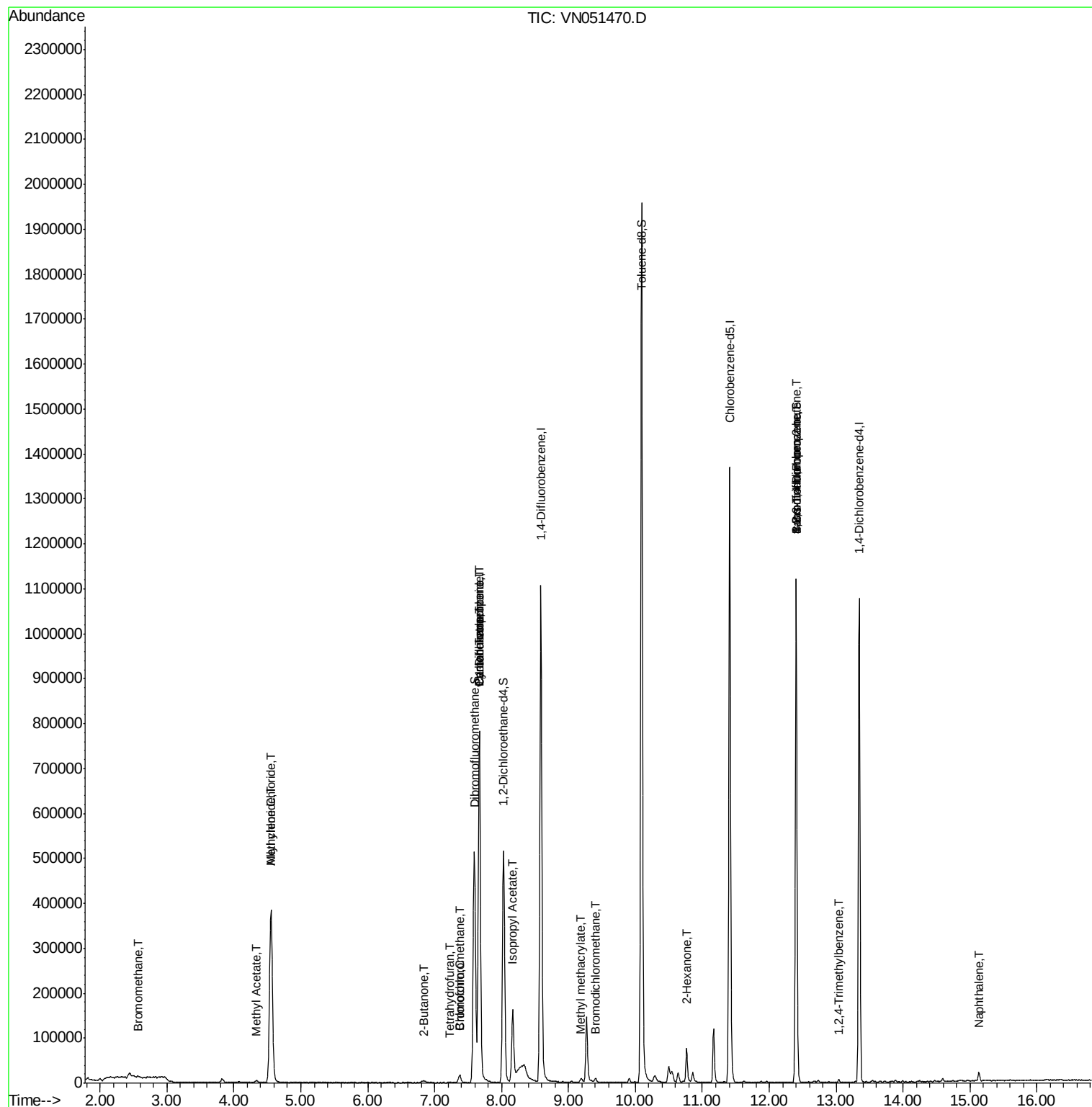
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	1434	0.276	ug/l	84
14) Allyl chloride	4.55	41	11284	0.901	ug/l #	26
16) Acetone	3.82	43	14761	Below Cal		93
18) Methyl Acetate	4.34	43	8649	1.351	ug/l #	73
20) Methylene Chloride	4.55	84	289107	34.759	ug/l	99
25) 2-Butanone	6.84	43	1120	0.389	ug/l #	48
28) Bromochloromethane	7.38	49	1487	0.223	ug/l #	12
29) Tetrahydrofuran	7.22	42	732	0.402	ug/l #	48
30) Chloroform	7.37	83	10147	0.709	ug/l	91
31) Cyclohexane	7.67	56	12390	0.936	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	45332	3.844	ug/l #	50
38) Carbon Tetrachloride	7.67	117	60038	4.868	ug/l #	16
43) Isopropyl Acetate	8.17	43	199126	16.242	ug/l	97
47) Bromodichloromethane	9.40	83	4086	0.347	ug/l #	96
48) Methyl methacrylate	9.18	41	5270	0.862	ug/l #	21
59) 2-Hexanone	10.77	43	11023	2.522	ug/l	63
71) Bromoform	12.40	173	2008	0.358	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	190949	37.731	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	190949	116.020	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.04	105	4313	0.204	ug/l	99
95) Naphthalene	15.13	128	16479	9.264	ug/l	97

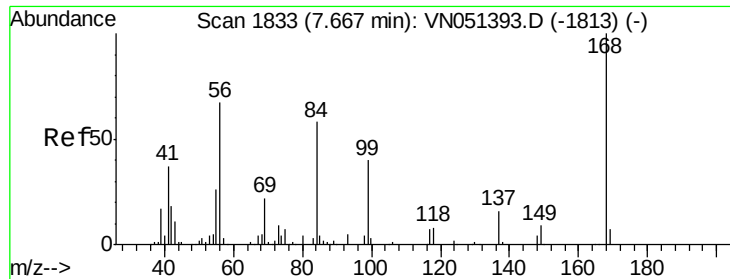
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051470.D

Acq: 24 Sep 2018 18:49

Instrument :

MSVOA_N

ClientSampleId :

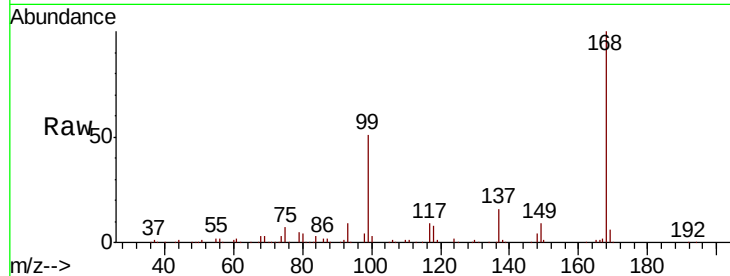
JC-02-092118-C

Tot Ion:168 Resp: 670988

Ion Ratio Lower Upper

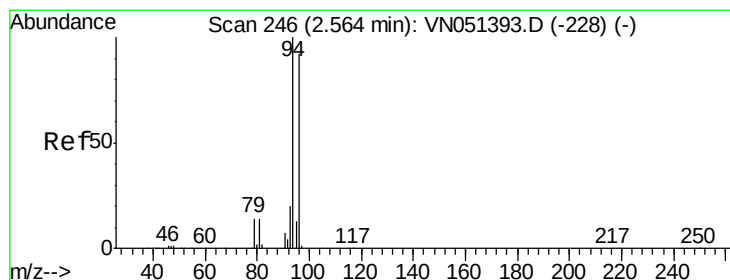
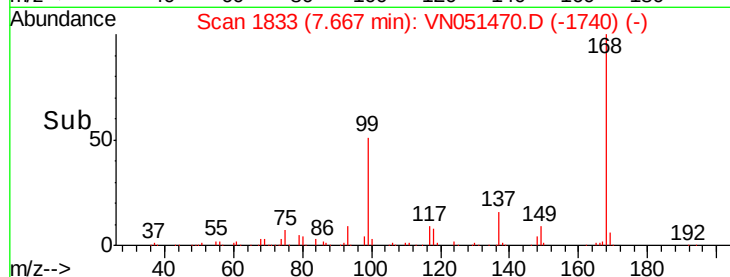
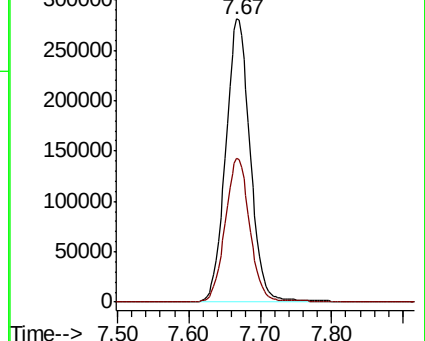
168 100

99 50.6 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#5

Bromomethane

Concen: 0.276 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.01 min

Lab File: VN051470.D

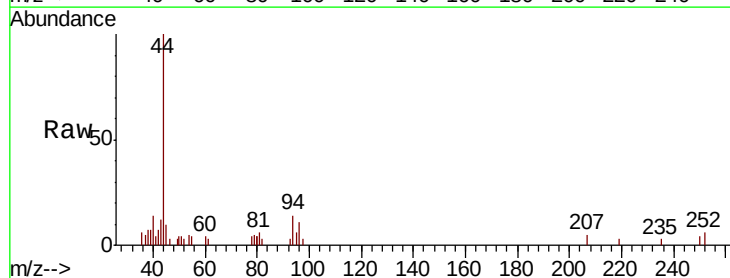
Acq: 24 Sep 2018 18:49

Tgt Ion: 94 Resp: 1434

Ion Ratio Lower Upper

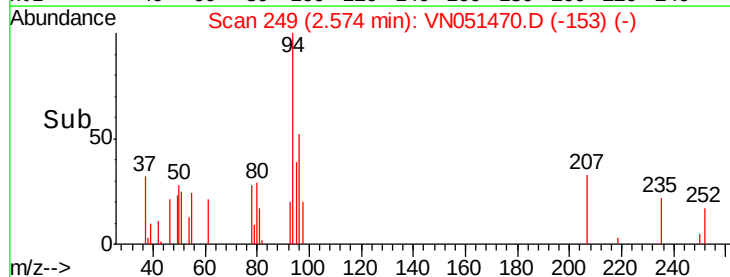
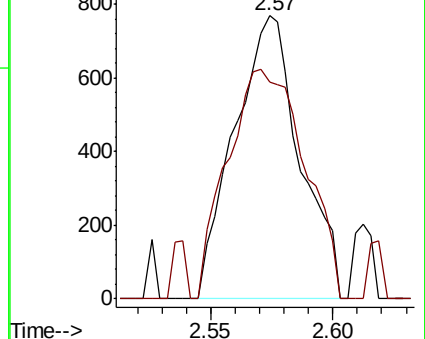
94 100

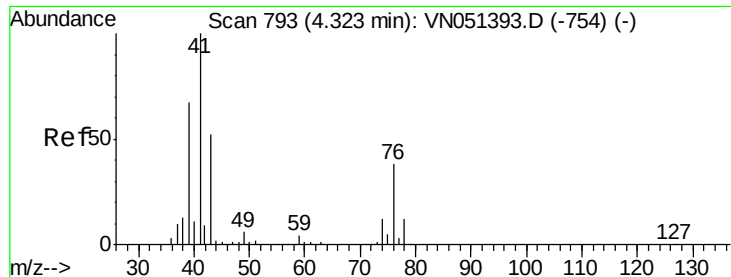
96 76.8 73.6 110.4



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

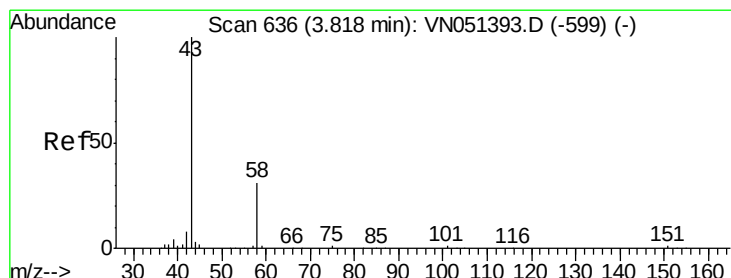
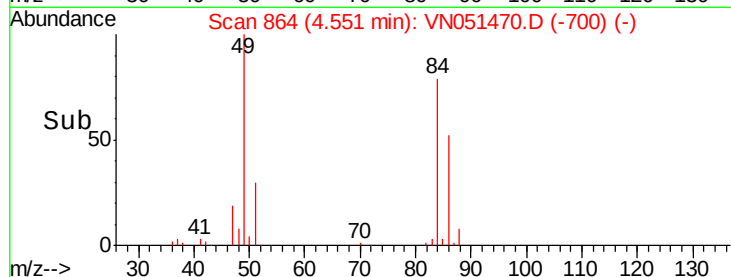
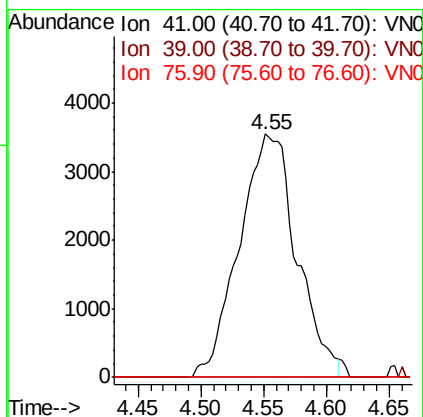
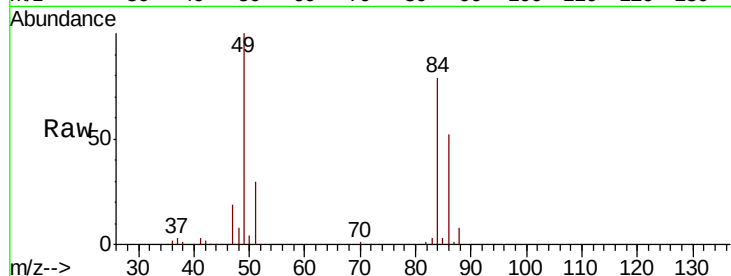




#14
Allvl chloride
Concen: 0.901 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.23 min
Lab File: VN051470.D
Acq: 24 Sep 2018 18:49

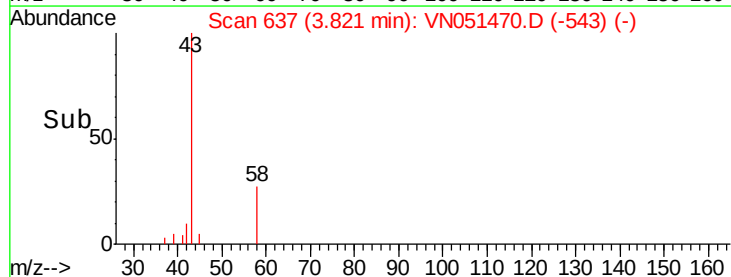
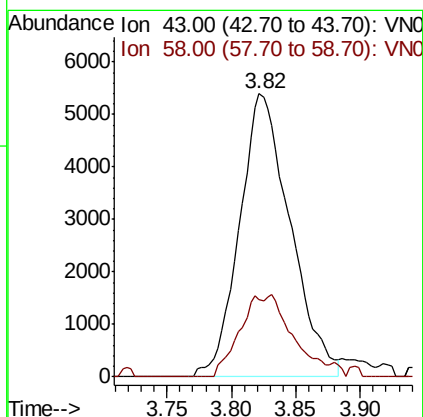
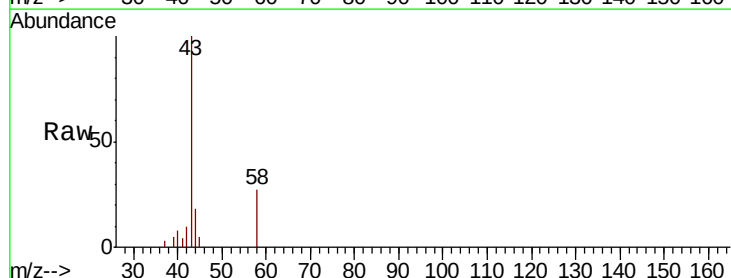
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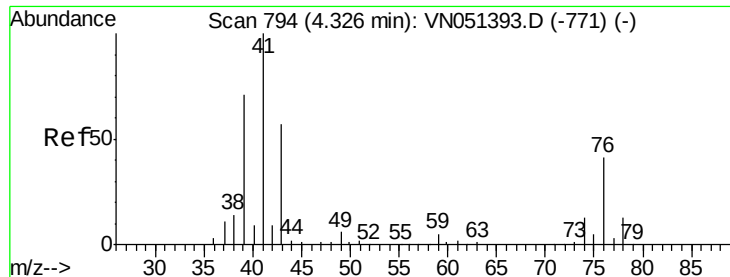
Tot Ion: 41 Resp: 11284
Ion Ratio Lower Upper
41 100
39 0.0 51.4 77.2#
76 0.0 28.1 42.1#



#16
Acetone
Concen: Below Cal
RT: 3.82 min Scan# 637
Delta R.T. 0.00 min
Lab File: VN051470.D
Acq: 24 Sep 2018 18:49

Tgt Ion: 43 Resp: 14761
Ion Ratio Lower Upper
43 100
58 27.5 25.0 37.4

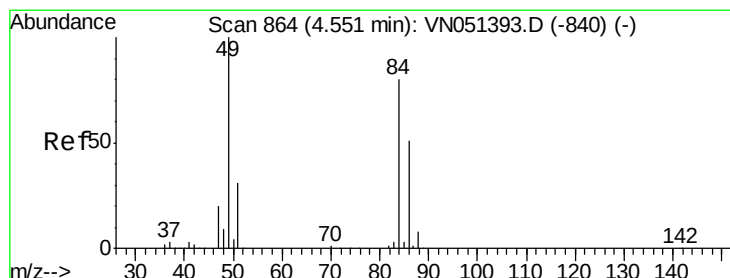
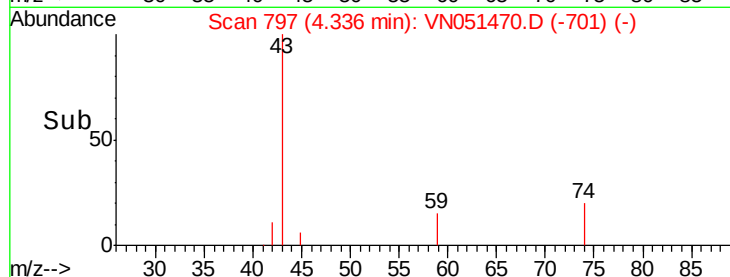
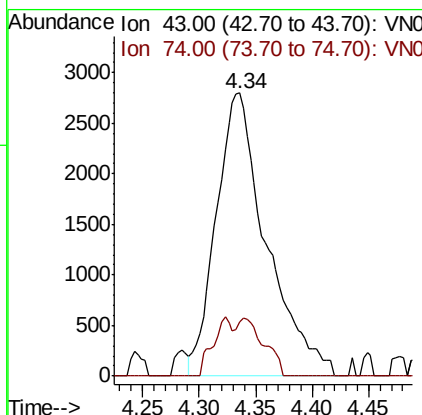
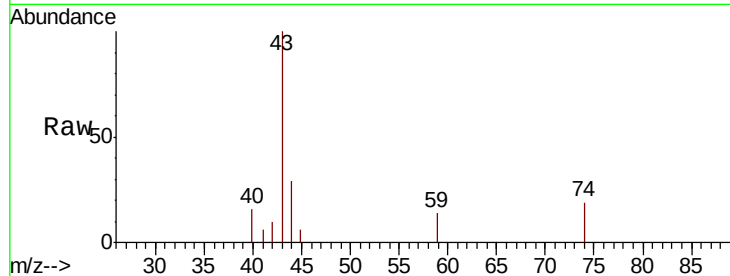




#18
Methyl Acetate
Concen: 1.351 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN051470.D
Acq: 24 Sep 2018 18:49

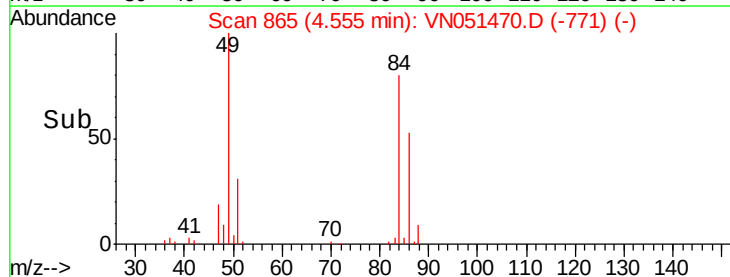
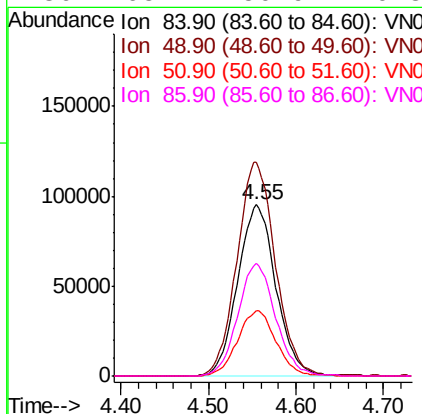
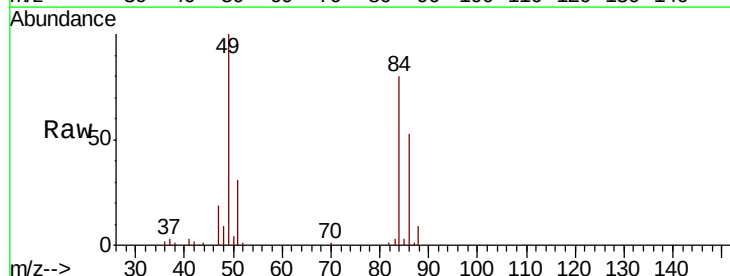
Instrument :
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ClientSampleId :
JC-02-092118-C

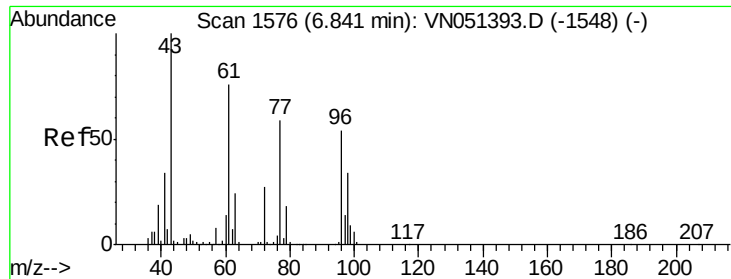
Tot Ion: 43 Resp: 8649
Ion Ratio Lower Upper
43 100
74 10.3 18.8 28.2#



#20
Methylene Chloride
Concen: 34.759 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051470.D
Acq: 24 Sep 2018 18:49

Tgt Ion: 84 Resp: 289107
Ion Ratio Lower Upper
84 100
49 124.9 99.9 149.9
51 38.2 31.4 47.2
86 65.7 50.9 76.3

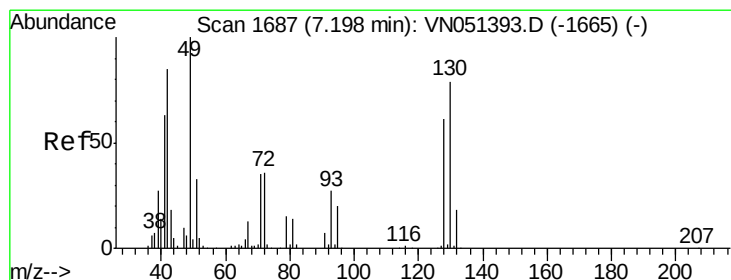
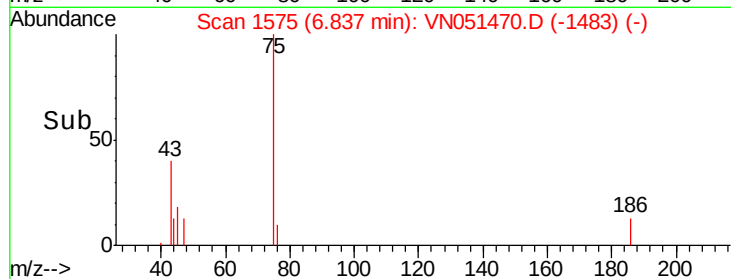
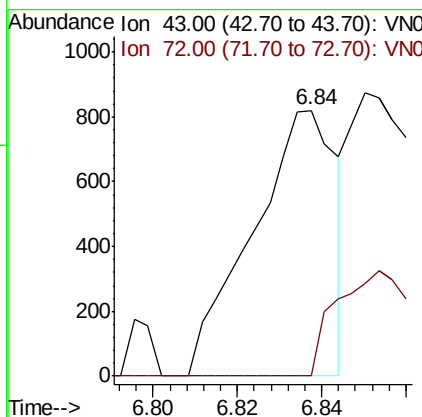
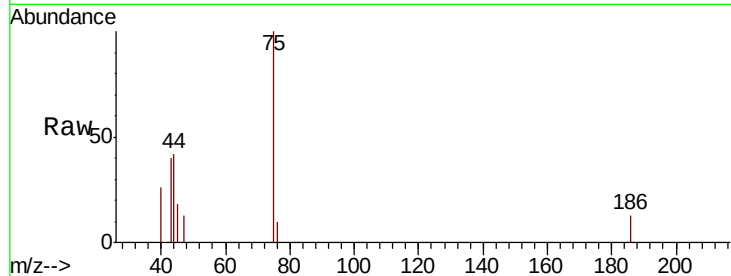




#25
 2-Butanone
 Concen: 0.389 ug/l
 RT: 6.84 min Scan# 1575
 Delta R.T. -0.00 min
 Lab File: VN051470.D
 Acq: 24 Sep 2018 18:49

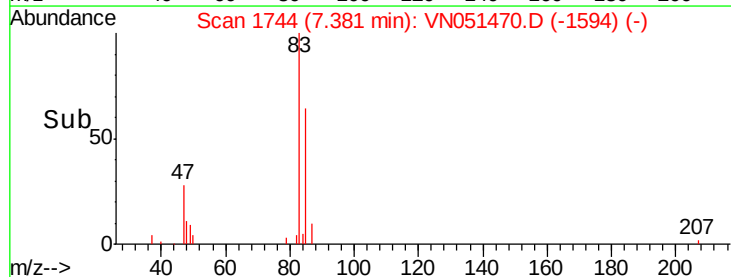
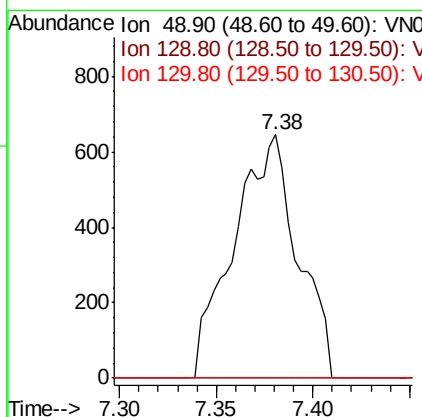
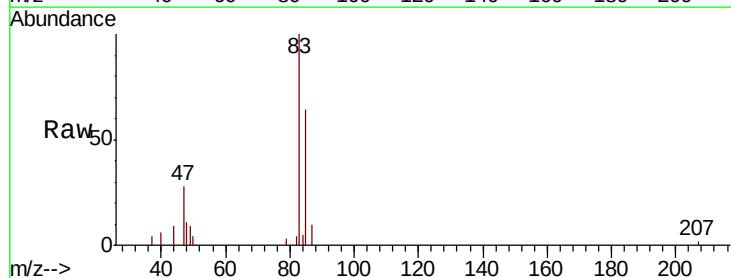
Instrument :
 MSVOA_N
 ClientSampleId :
 JC-02-092118-C

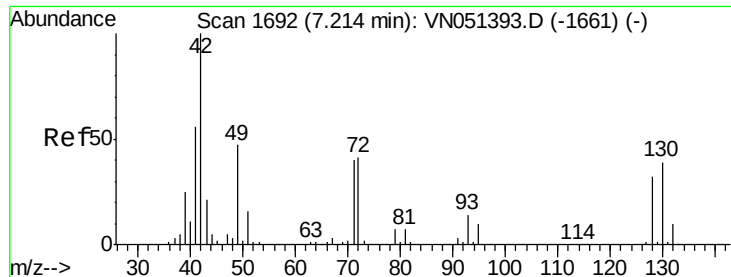
Tot Ion: 43 Resp: 1120
 Ion Ratio Lower Upper
 43 100
 72 0.0 21.8 32.6#



#28
 Bromochloromethane
 Concen: 0.223 ug/l
 RT: 7.38 min Scan# 1744
 Delta R.T. 0.18 min
 Lab File: VN051470.D
 Acq: 24 Sep 2018 18:49

Tgt Ion: 49 Resp: 1487
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 3.8
 130 0.0 63.0 94.4#





#29

Tetrahydrofuran

Concen: 0.402 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.01 min

Lab File: VN051470.D

Acq: 24 Sep 2018 18:49

Instrument :

MSVOA_N

ClientSampleId :

JC-02-092118-C

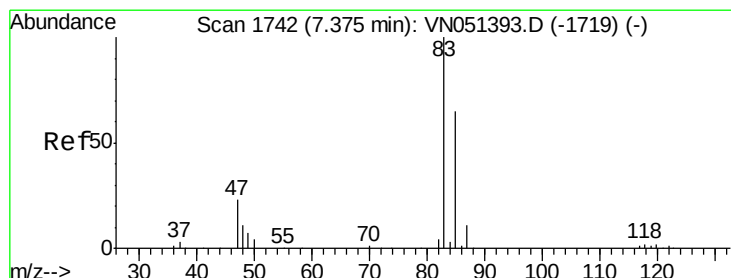
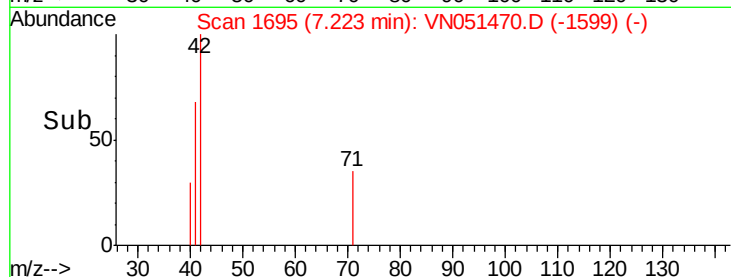
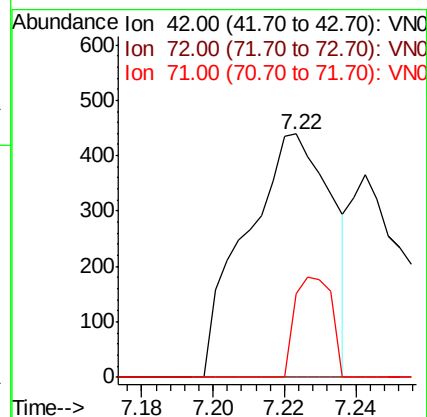
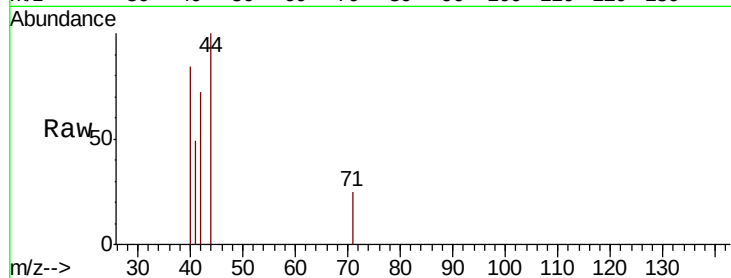
Tot Ion: 42 Resp: 732

Ion Ratio Lower Upper

42 100

72 0.0 34.3 51.5#

71 17.5 32.2 48.4#



#30

Chloroform

Concen: 0.709 ug/l

RT: 7.37 min Scan# 1740

Delta R.T. -0.01 min

Lab File: VN051470.D

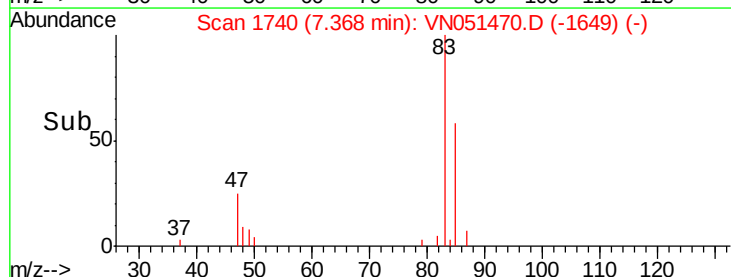
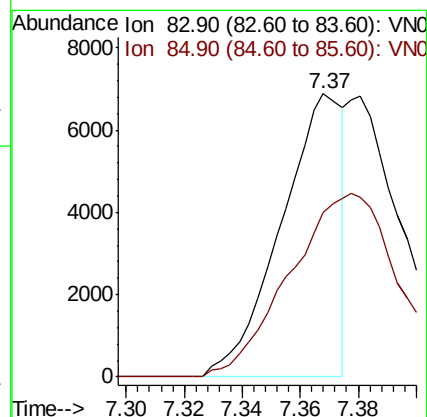
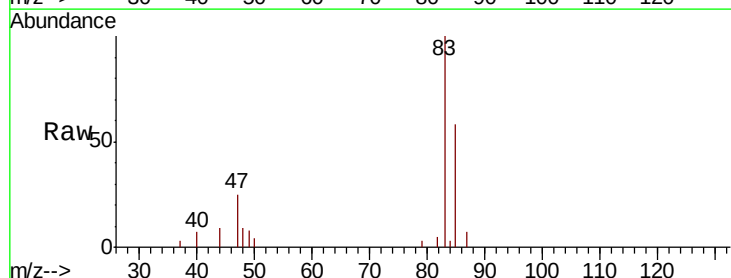
Acq: 24 Sep 2018 18:49

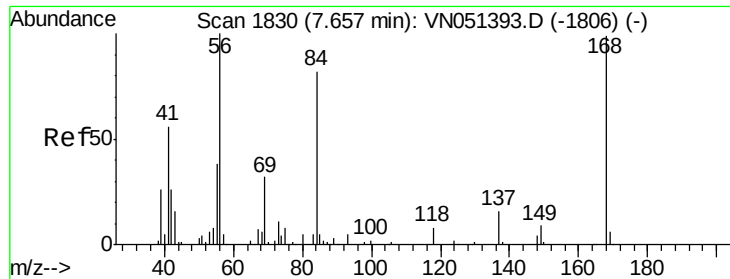
Tgt Ion: 83 Resp: 10147

Ion Ratio Lower Upper

83 100

85 58.0 51.8 77.6

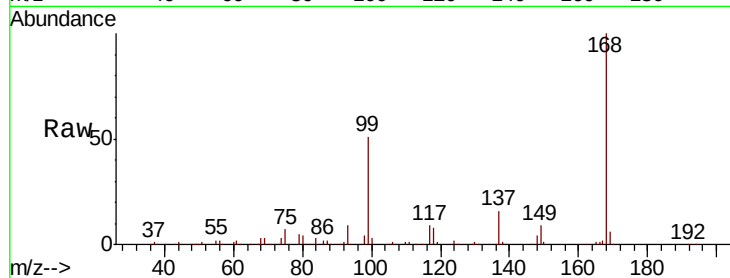




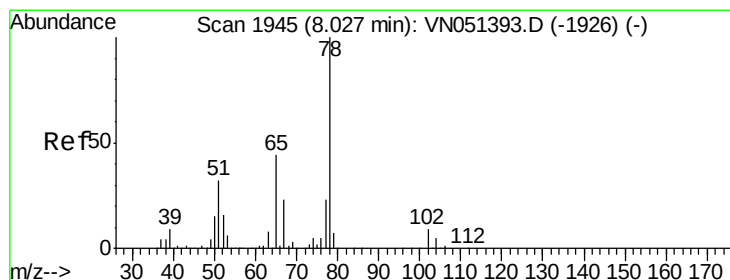
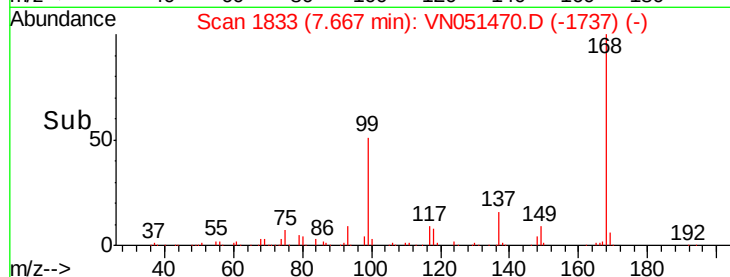
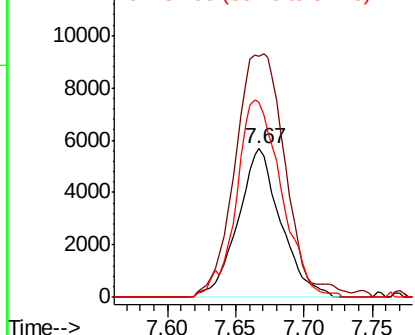
#31
Cyclohexane
Concen: 0.936 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN051470.D
Acq: 24 Sep 2018 18:49

Instrument :
MSVOA_N
ClientSampleId :
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Tot Ion: 56 Resp: 12390
Ion Ratio Lower Upper
56 100
69 162.8 25.8 38.6#
84 131.3 66.0 99.0#

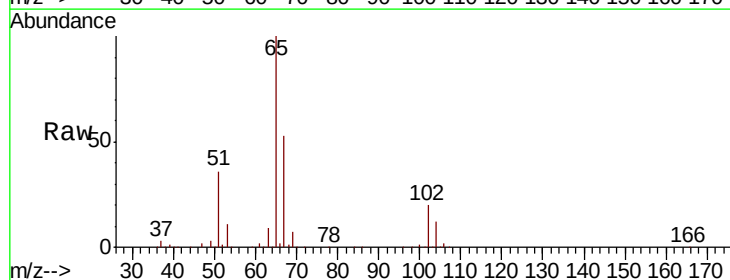


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

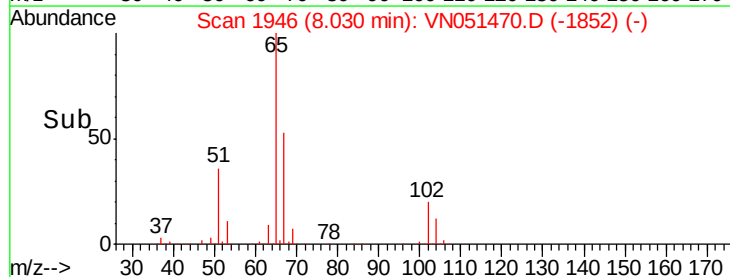
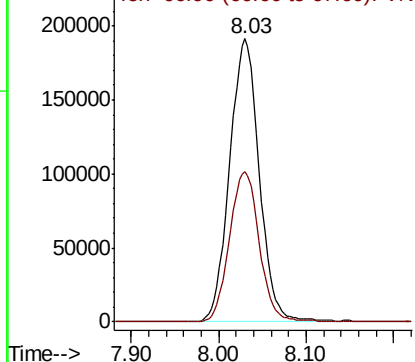


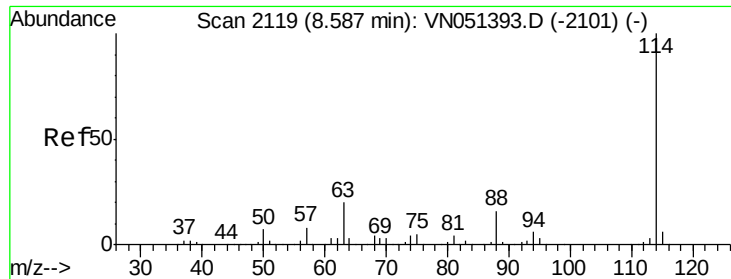
#33
1,2-Dichloroethane-d4
Concen: 53.574 ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN051470.D
Acq: 24 Sep 2018 18:49

Tgt Ion: 65 Resp: 450305
Ion Ratio Lower Upper
65 100
67 53.4 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

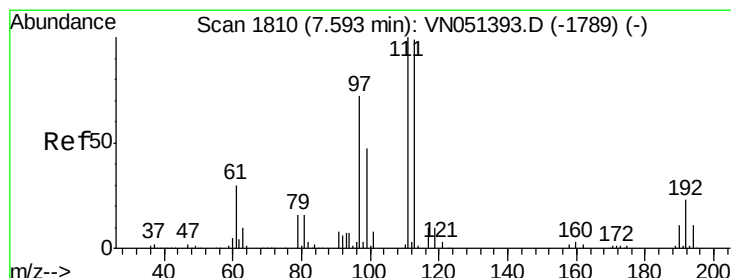
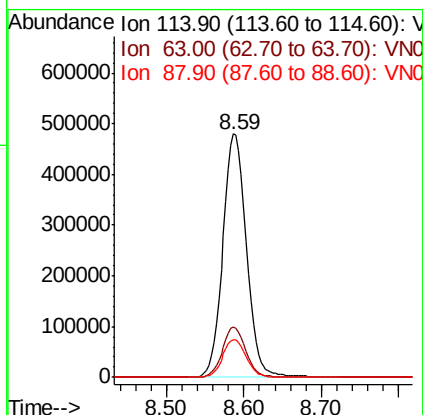
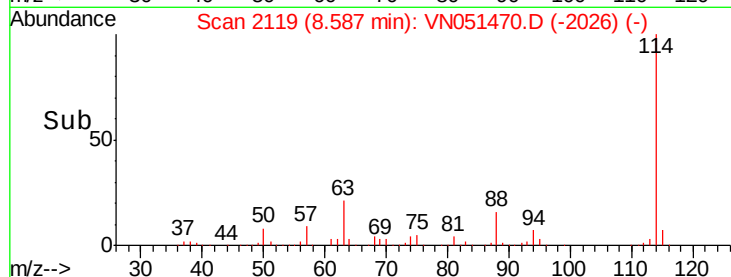
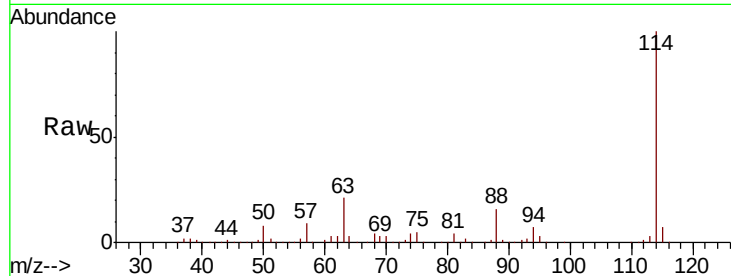




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. -0.00 min
Lab File: VN051470.D
Acq: 24 Sep 2018 18:49

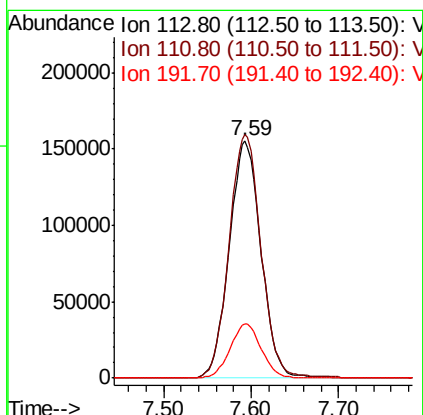
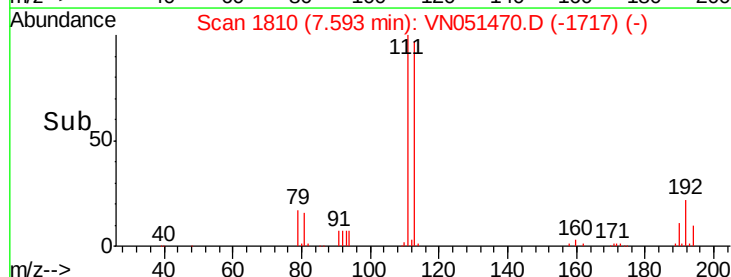
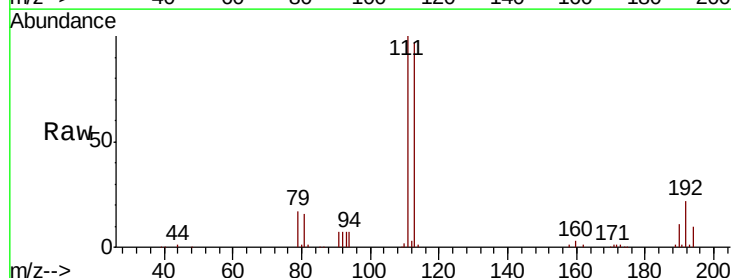
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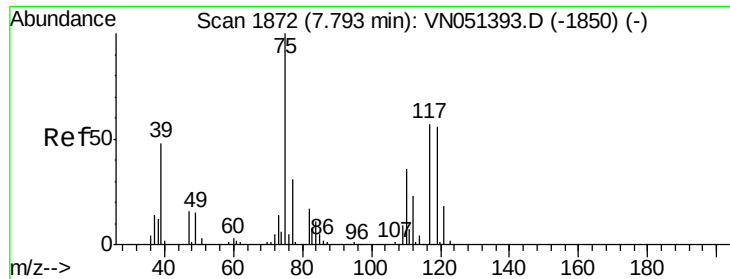
Tot Ion:114 Resp: 1018276
Ion Ratio Lower Upper
114 100
63 20.6 0.0 40.2
88 15.6 0.0 31.4



#35
Dibromofluoromethane
Concen: 48.243 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. -0.00 min
Lab File: VN051470.D
Acq: 24 Sep 2018 18:49

Tgt Ion:113 Resp: 392824
Ion Ratio Lower Upper
113 100
111 103.0 82.6 123.8
192 22.4 18.0 27.0





#36

1,1-Dichloropropene

Concen: 3.844 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN051470.D

Acq: 24 Sep 2018 18:49

Instrument :

MSVOA_N

ClientSampleId :

JC-02-092118-C

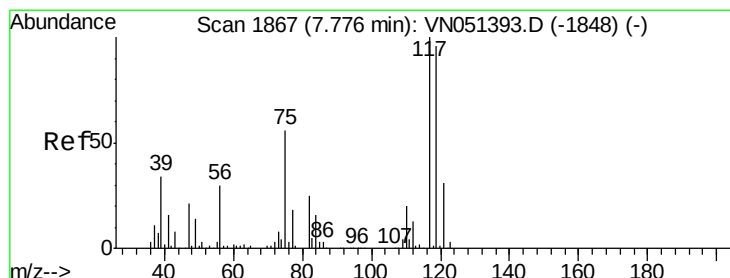
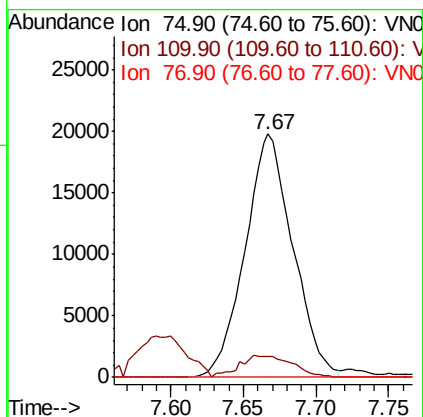
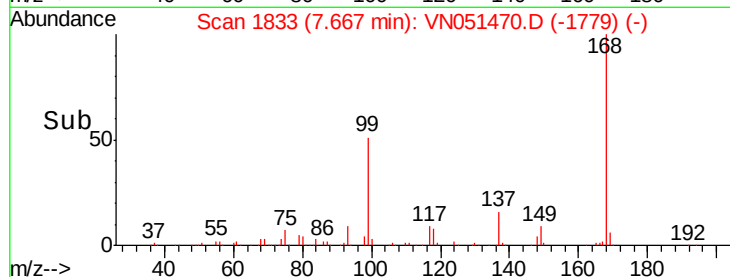
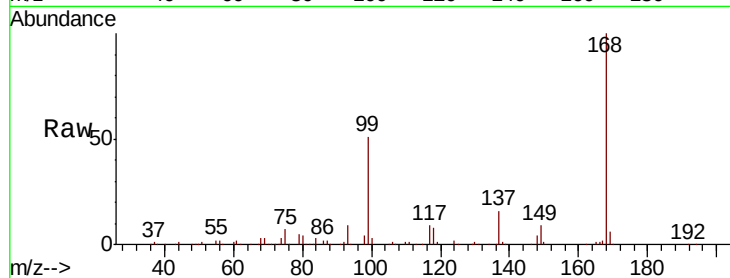
Tot Ion: 75 Resp: 45332

Ion Ratio Lower Upper

75 100

110 10.0 18.1 54.3#

77 0.0 25.6 38.4#



#38

Carbon Tetrachloride

Concen: 4.868 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051470.D

Acq: 24 Sep 2018 18:49

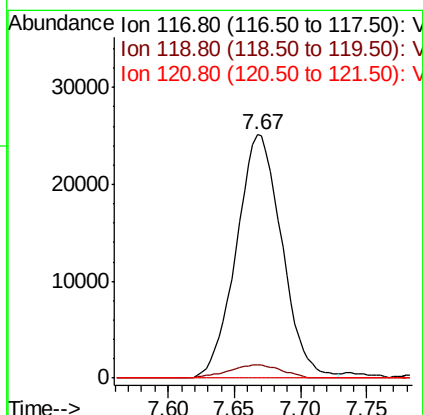
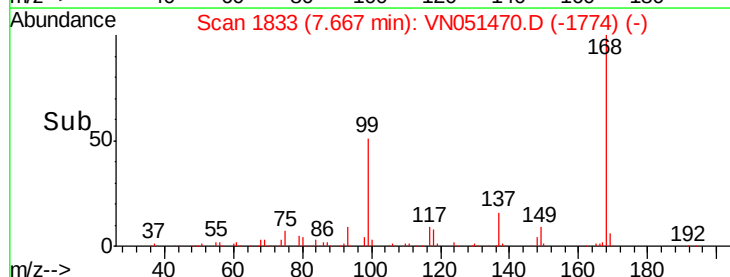
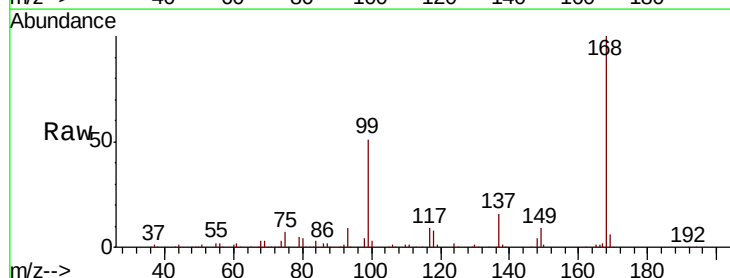
Tgt Ion: 117 Resp: 60038

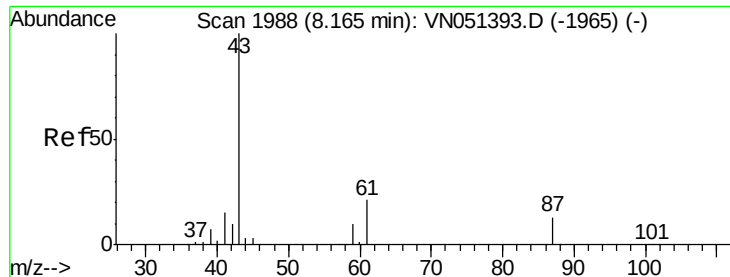
Ion Ratio Lower Upper

117 100

119 5.7 76.9 115.3#

121 0.0 24.6 37.0#





#43

Isopropyl Acetate

Concen: 16.242 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VN051470.D

Acq: 24 Sep 2018 18:49

Instrument :

MSVOA_N

ClientSampleId :

JC-02-092118-C

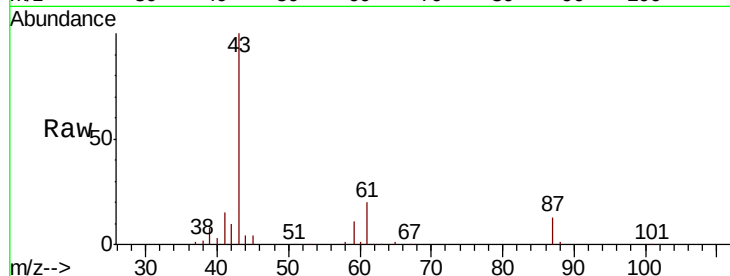
Tot Ion: 43 Resp: 199126

Ion Ratio Lower Upper

43 100

61 19.4 16.8 25.2

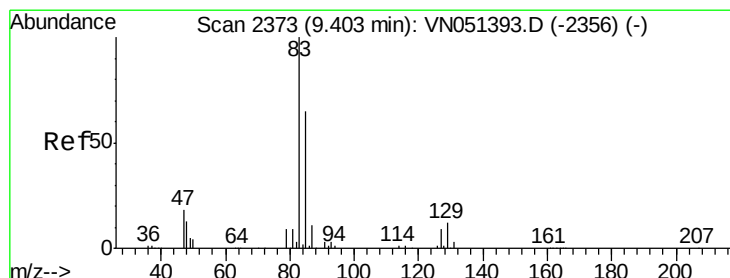
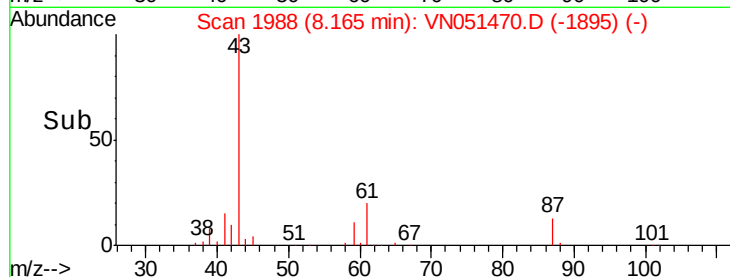
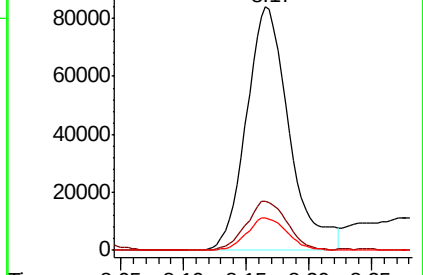
87 12.8 10.7 16.1



Abundance Ion 43.00 (42.70 to 43.70): VN051470.D (-2280) (-)

Ion 61.00 (60.70 to 61.70): VN051470.D (-2280) (-)

Ion 87.00 (86.70 to 87.70): VN051470.D (-2280) (-)



#47

Bromodichloromethane

Concen: 0.347 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN051470.D

Acq: 24 Sep 2018 18:49

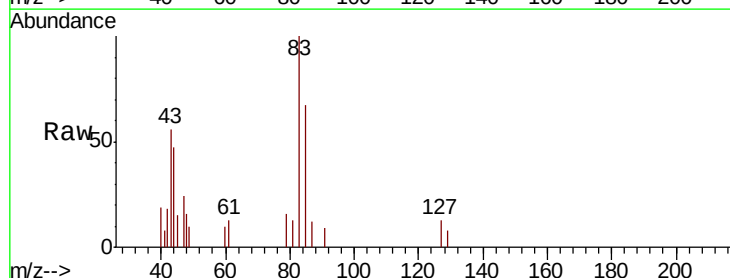
Tgt Ion: 83 Resp: 4086

Ion Ratio Lower Upper

83 100

85 67.1 51.8 77.6

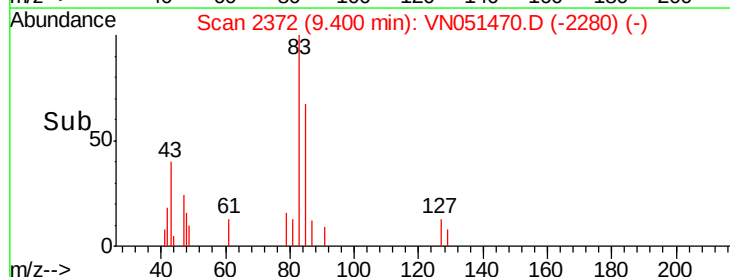
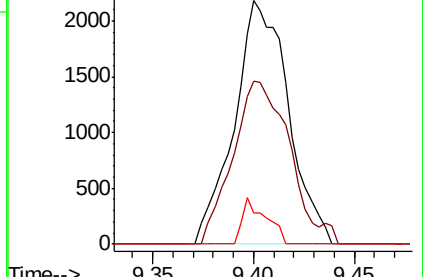
127 12.8 7.4 11.2#

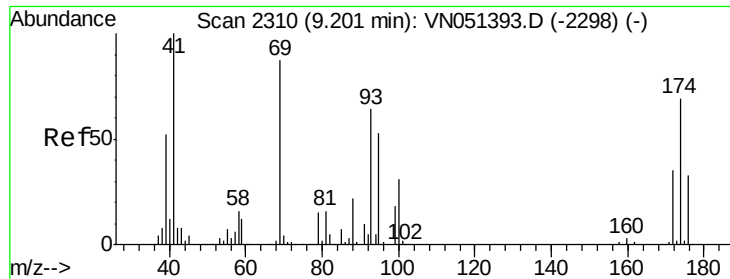


Abundance Ion 82.90 (82.60 to 83.60): VN051470.D (-2280) (-)

Ion 84.90 (84.60 to 85.60): VN051470.D (-2280) (-)

Ion 126.80 (126.50 to 127.50): VN051470.D (-2280) (-)

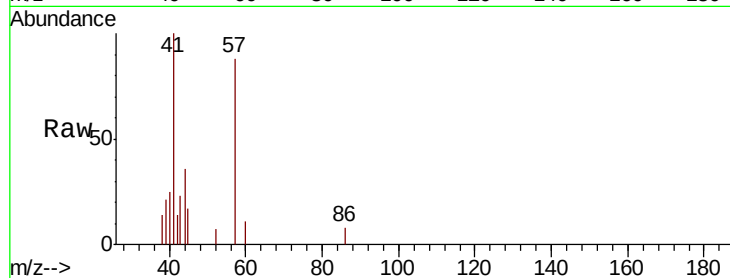




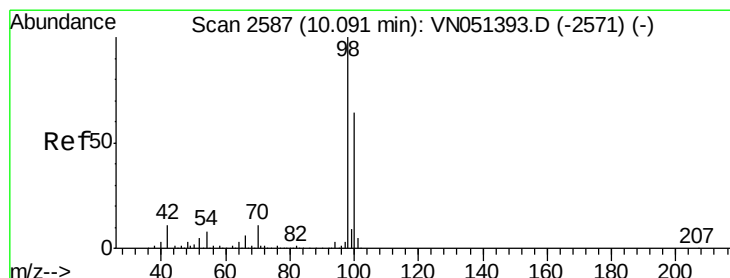
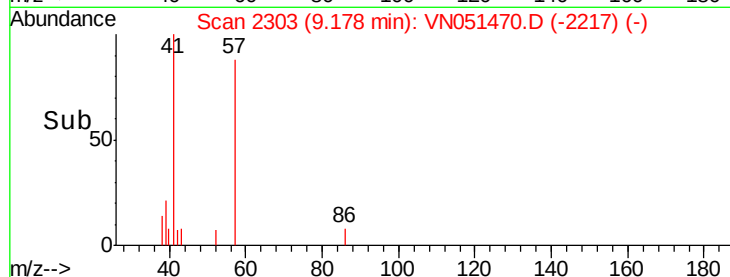
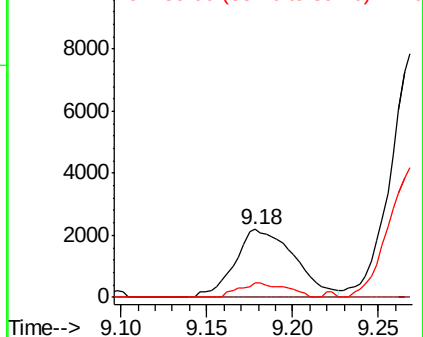
#48
Methvl methacrylate
Concen: 0.862 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN051470.D
Acq: 24 Sep 2018 18:49

Instrument :
MSVOA_N
ClientSampleId :
JC-02-092118-C

Tot Ion: 41 Resp: 5270
Ion Ratio Lower Upper
41 100
69 0.0 70.4 105.6#
39 16.7 43.8 65.8#

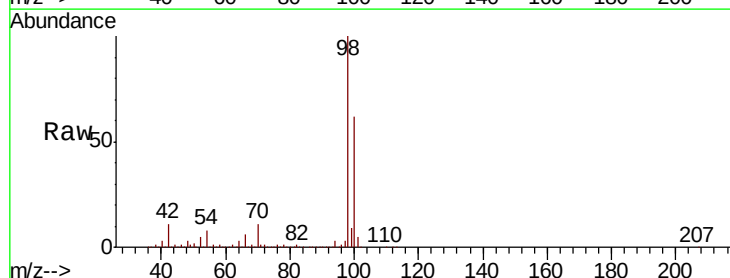


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

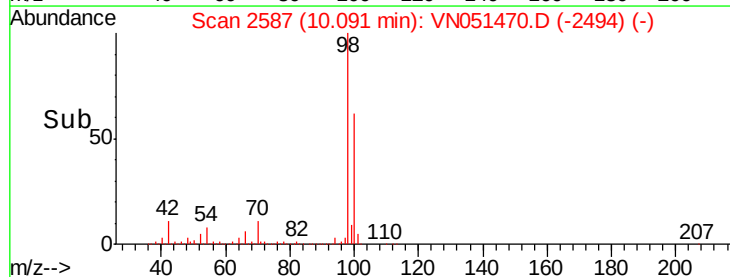
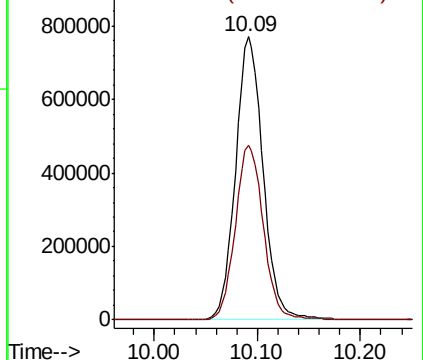


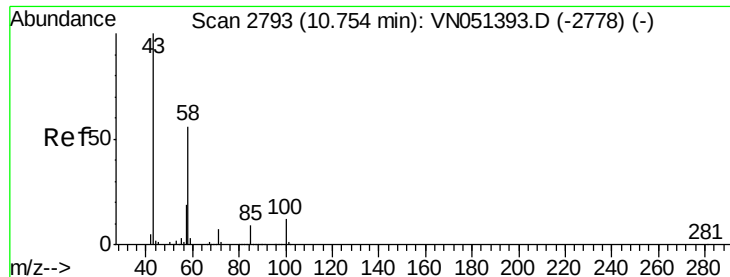
#50
Toluene-d8
Concen: 46.841 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051470.D
Acq: 24 Sep 2018 18:49

Tgt Ion: 98 Resp: 1436273
Ion Ratio Lower Upper
98 100
100 63.2 50.6 75.8



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

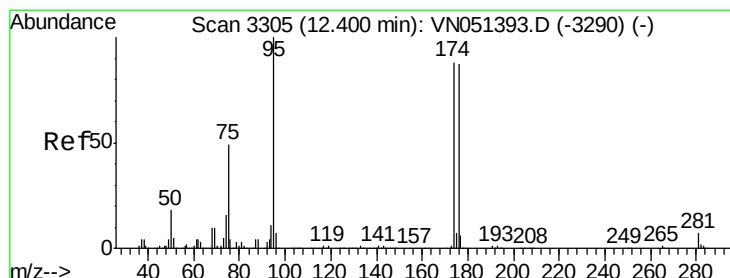
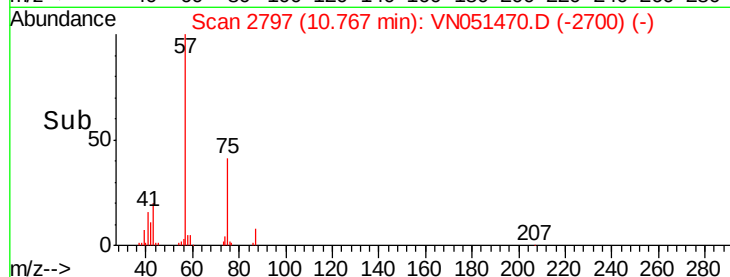
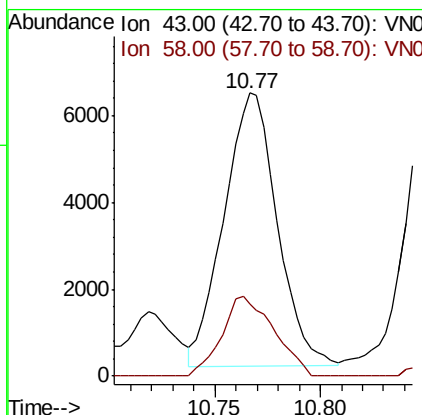
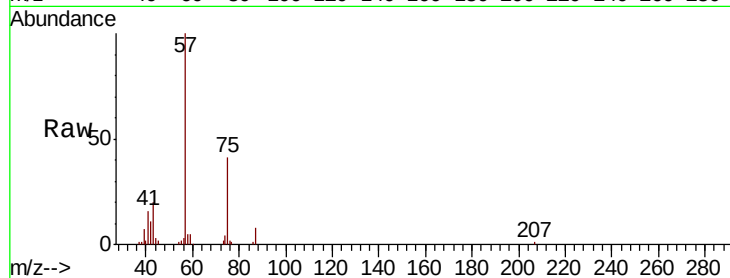




#59
2-Hexanone
Concen: 2.522 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051470.D
Acq: 24 Sep 2018 18:49

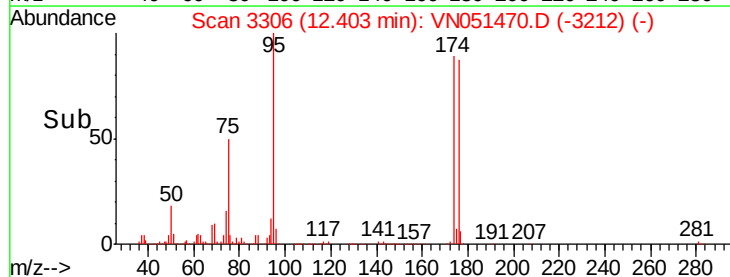
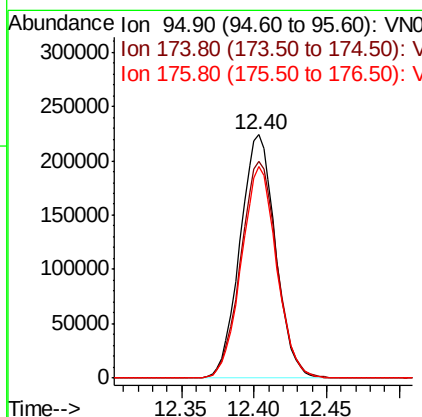
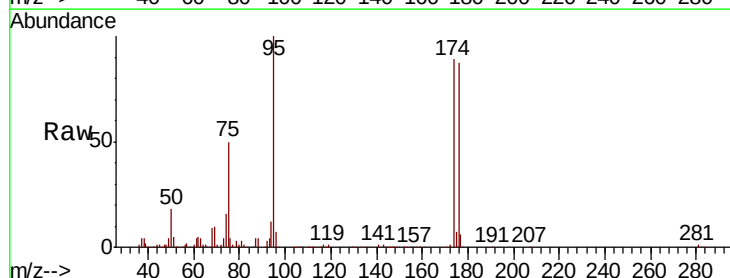
Instrument :
MSVOA_N
ClientSampleId :
JC-02-092118-C

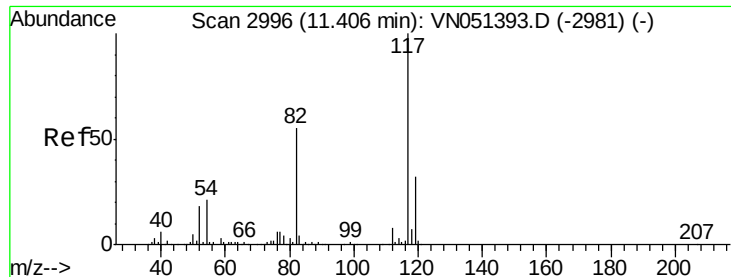
Tot Ion: 43 Resp: 11023
Ion Ratio Lower Upper
43 100
58 28.5 27.7 83.0



#62
4-Bromofluorobenzene
Concen: 38.449 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051470.D
Acq: 24 Sep 2018 18:49

Tgt Ion: 95 Resp: 381383
Ion Ratio Lower Upper
95 100
174 91.0 0.0 181.6
176 86.4 0.0 176.4

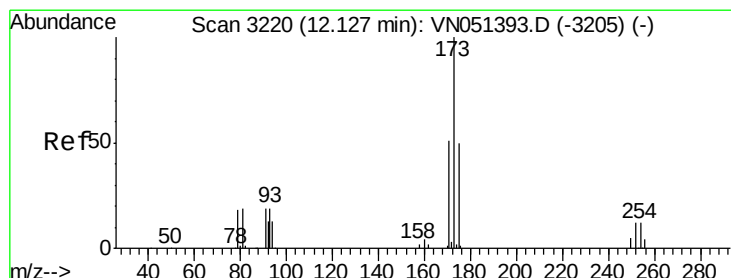
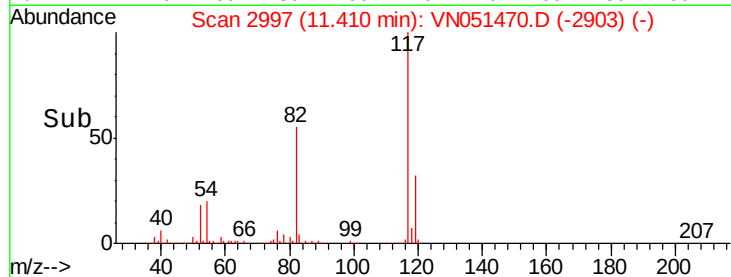
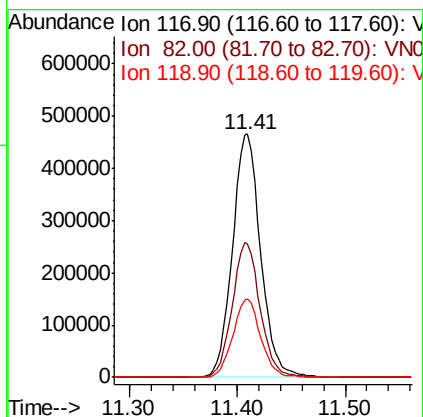
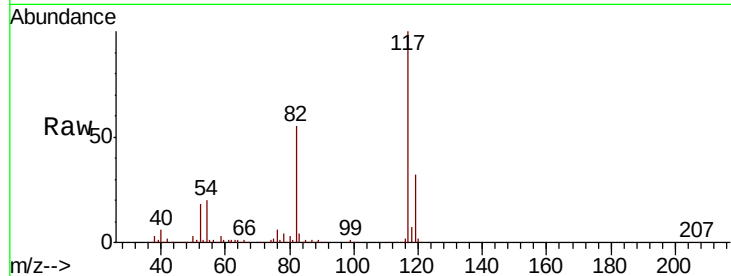




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051470.D
Acq: 24 Sep 2018 18:49

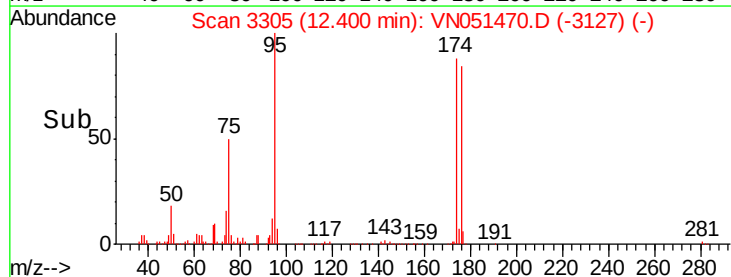
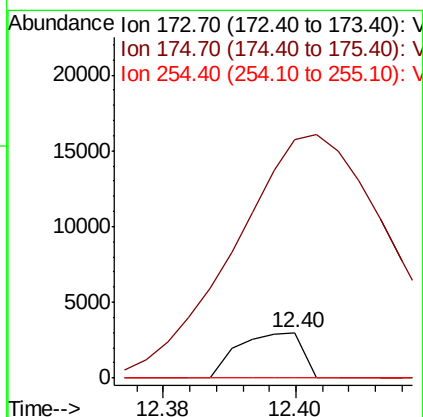
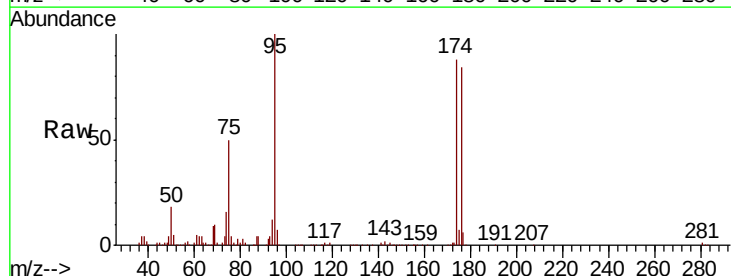
Instrument :
MSVOA_N
ClientSampleId :
JC-02-092118-C

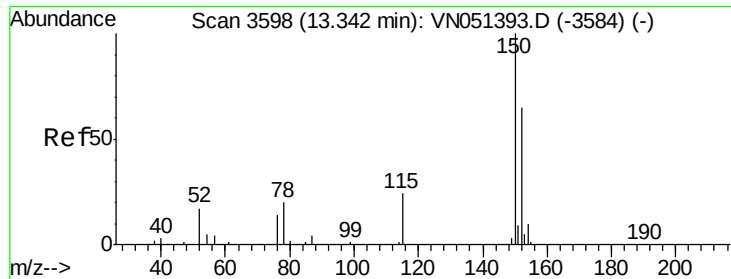
Tot Ion:117 Resp: 846572
Ion Ratio Lower Upper
117 100
82 55.0 44.2 66.2
119 32.5 25.9 38.9



#71
Bromoform
Concen: 0.358 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN051470.D
Acq: 24 Sep 2018 18:49

Tgt Ion:173 Resp: 2008
Ion Ratio Lower Upper
173 100
175 1133.1 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: VN051470.D

Acq: 24 Sep 2018 18:49

Instrument :

MSVOA_N

ClientSampleId :

JC-02-092118-C

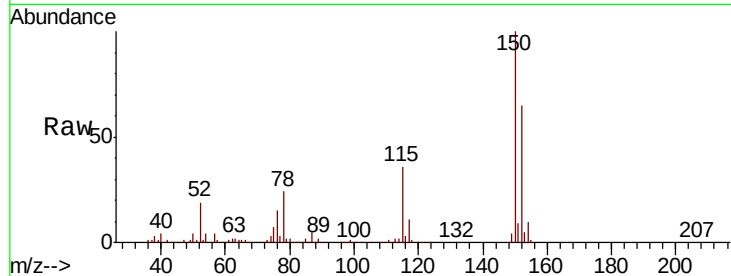
Tot Ion:152 Resp: 304857

Ion Ratio Lower Upper

152 100

115 56.2 28.3 84.9

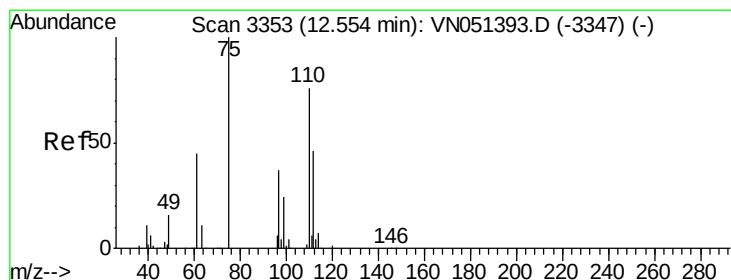
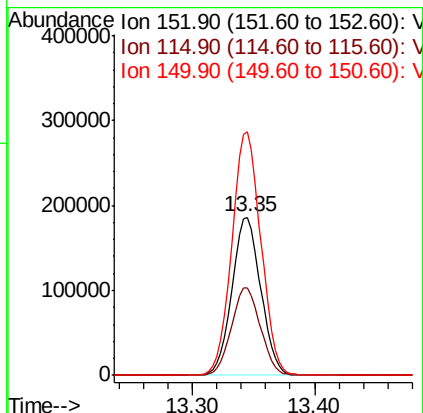
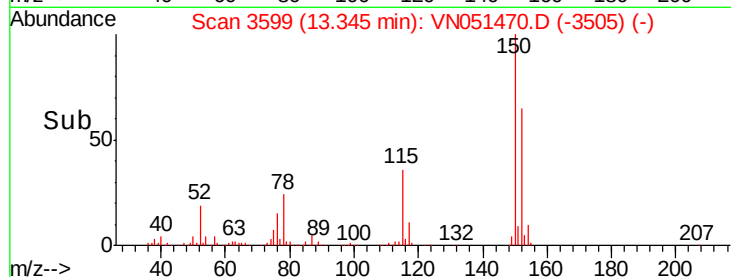
150 155.3 0.0 353.6



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: 37.731 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051470.D

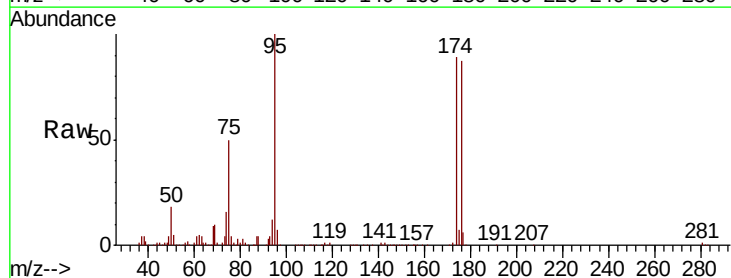
Acq: 24 Sep 2018 18:49

Tgt Ion: 75 Resp: 190949

Ion Ratio Lower Upper

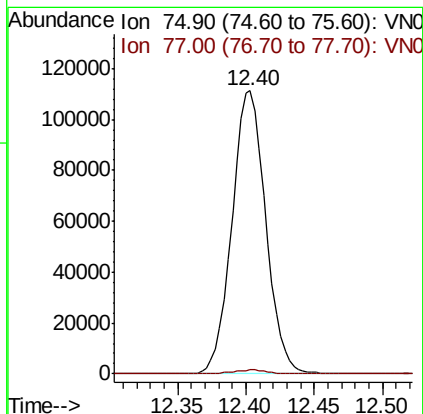
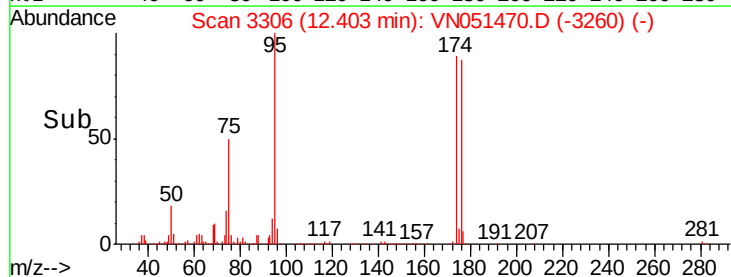
75 100

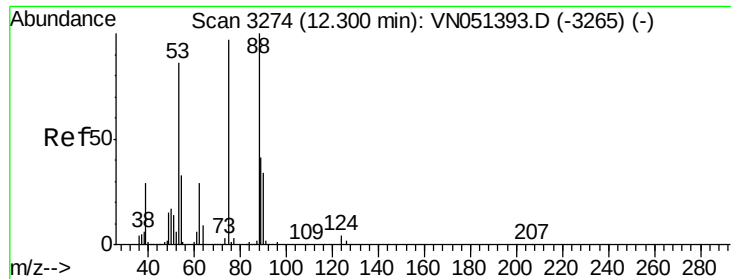
77 1.4 0.0 0.0#



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: 116.020 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051470.D

Acq: 24 Sep 2018 18:49

Instrument :

MSVOA_N

ClientSampleId :

JC-02-092118-C

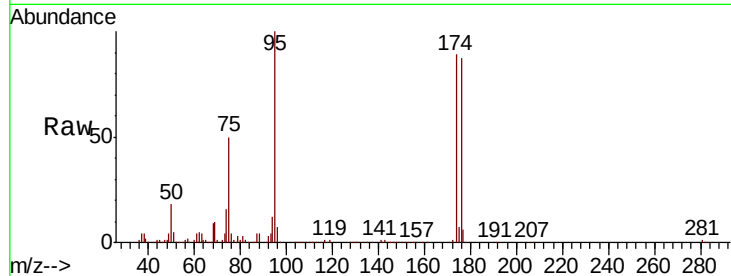
Tot Ion: 75 Resp: 190949

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

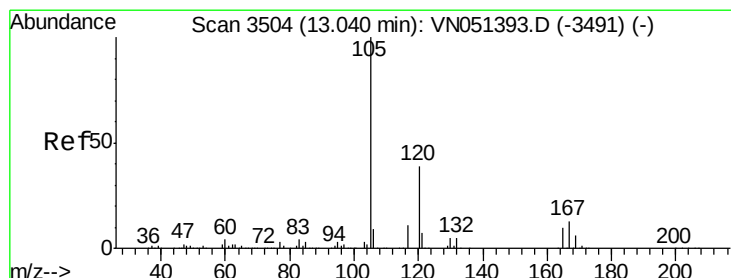
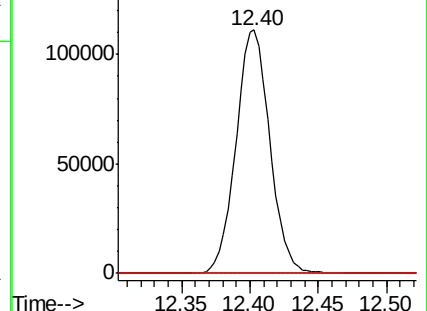
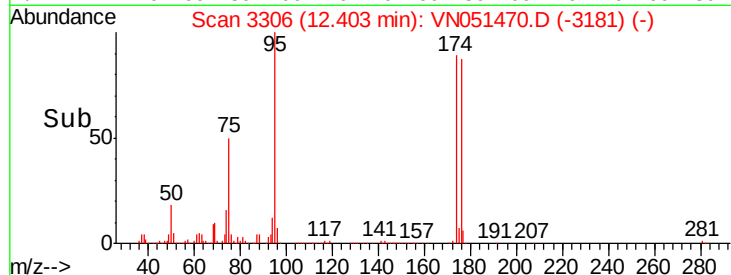
89 0.0 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VN051470.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN051470.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN051470.D (-3181) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.204 ug/l

RT: 13.04 min Scan# 3503

Delta R.T. -0.00 min

Lab File: VN051470.D

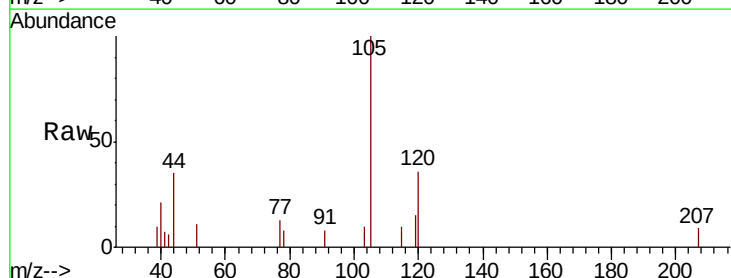
Acq: 24 Sep 2018 18:49

Tgt Ion: 105 Resp: 4313

Ion Ratio Lower Upper

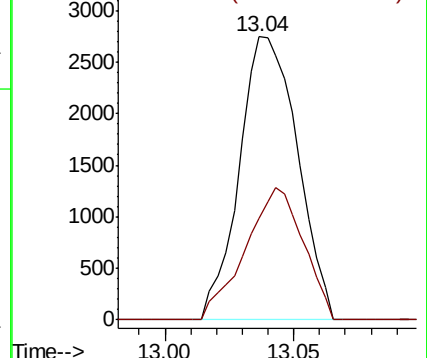
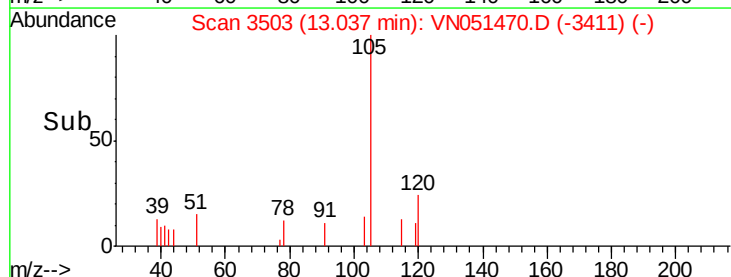
105 100

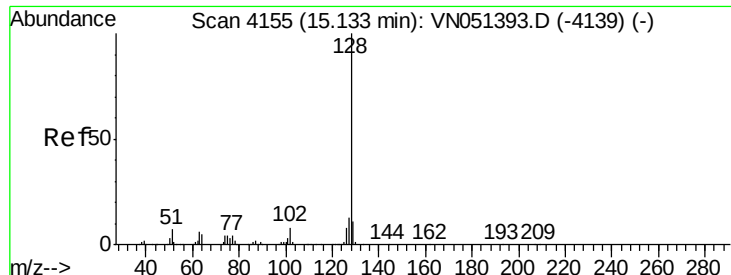
120 46.7 22.9 68.7



Abundance Ion 105.00 (104.70 to 105.70): VN051470.D (-3411) (-)

Ion 120.00 (119.70 to 120.70): VN051470.D (-3411) (-)





#95

Naphthalene

Concen: 9.264 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN051470.D

Acq: 24 Sep 2018 18:49

Instrument :

MSVOA_N

ClientSampleId :

JC-02-092118-C

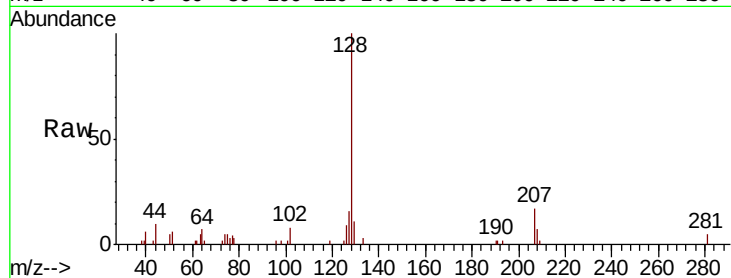
Tot Ion:128 Resp: 16479

Ion Ratio Lower Upper

128 100

127 15.1 10.5 15.7

129 11.1 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

