

Data Path : \\74.0.250.170\TERASTORAGE\VOASRV\HPCHEM1\MSVOA_N\DATA\VN081418\
 Data File : VN050614.D
 Acq On : 14 Aug 2018 20:08
 Operator : MD\SY
 Sample : J4469-06
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 961-IW-22(17)

Quant Time: Aug 15 07:11:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 08:07:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	625342	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	990321	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	832026	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	289192	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	414054	52.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.06%	
35) Dibromofluoromethane	7.59	113	392424	49.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.26%	
50) Toluene-d8	10.09	98	1378457	46.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.66%	
62) 4-Bromofluorobenzene	12.40	95	360178	36.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	73.28%	

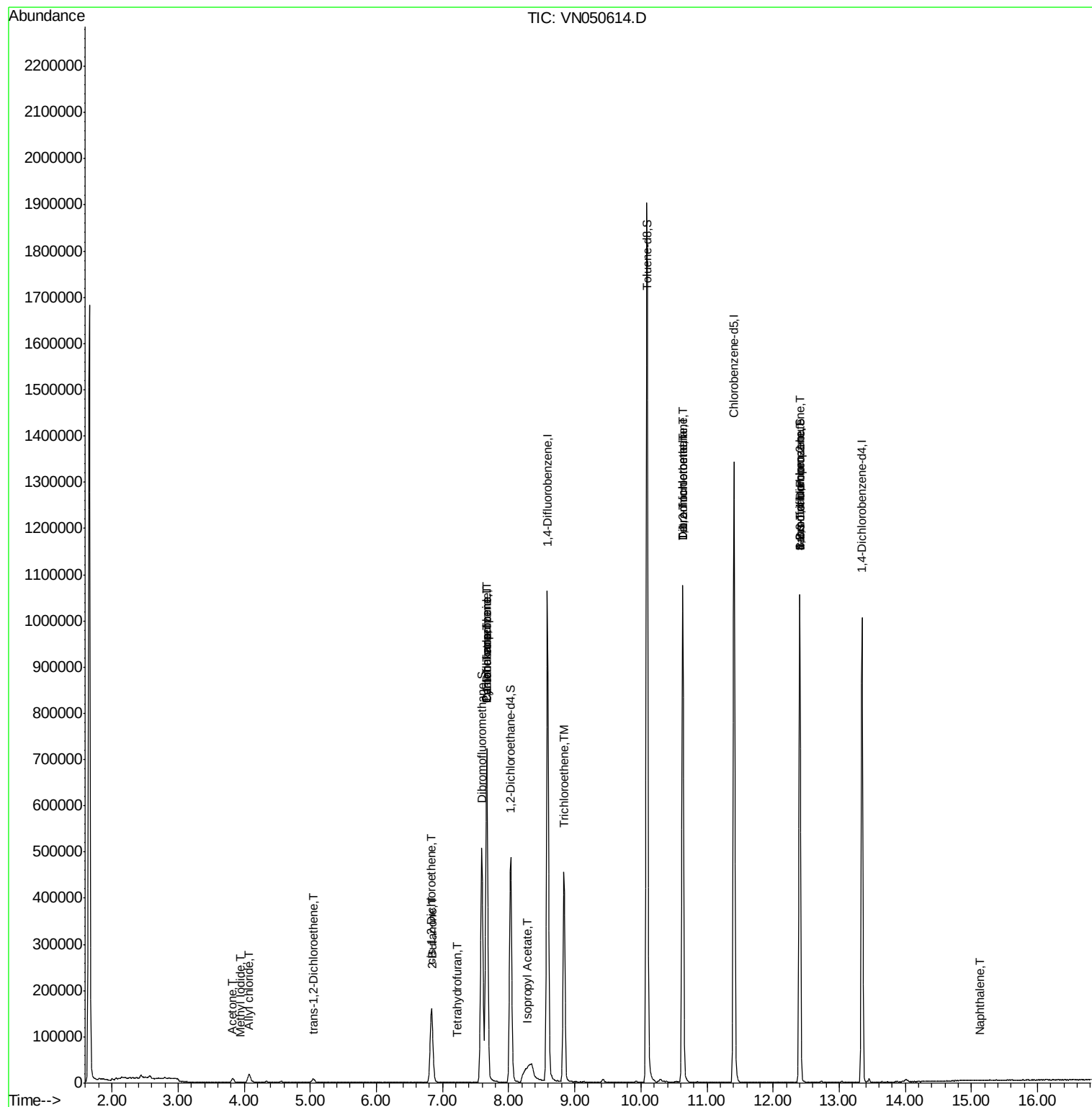
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2858	Below Cal	#	87
5) Bromomethane	2.57	94	3241	Below Cal		91
6) Chloroethane	2.71	64	108	Below Cal	#	43
10) Methyl Iodide	3.95	142	608	7.048	ug/l #	82
14) Allyl chloride	4.07	41	3625	0.343	ug/l #	32
16) Acetone	3.82	43	14830	6.121	ug/l	90
18) Methyl Acetate	4.34	43	4917	Below Cal	#	73
20) Methylene Chloride	4.55	84	1511	Below Cal	#	69
21) trans-1,2-Dichloroethene	5.04	96	5625	0.765	ug/l	94
25) 2-Butanone	6.85	43	2725	0.843	ug/l #	63
27) cis-1,2-Dichloroethene	6.83	96	109642	13.385	ug/l	91
29) Tetrahydrofuran	7.23	42	745	0.441	ug/l #	68
31) Cyclohexane	7.67	56	12555	0.710	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	43156	3.915	ug/l #	49
38) Carbon Tetrachloride	7.67	117	55802	4.879	ug/l #	16
43) Isopropyl Acetate	8.27	43	38811	3.418	ug/l #	60
44) Trichloroethene	8.84	130	179078	19.934	ug/l	98
55) 1,1,2-Trichloroethane	10.63	97	1846	0.247	ug/l #	1
60) Dibromochloromethane	10.63	129	235671	28.545	ug/l #	10
64) Tetrachloroethene	10.63	164	275051	35.597	ug/l	99
71) Bromoform	12.40	173	1315	0.255	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.41	83	111	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	171273	36.377	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	171273	131.669	ug/l #	13
95) Naphthalene	15.13	128	318	3.887	ug/l #	69

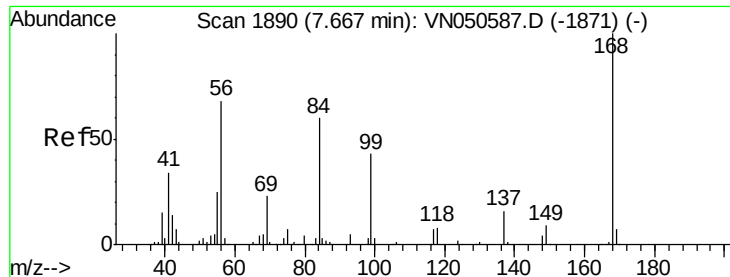
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Aug 14 08:07:08 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050614.D

Acq: 14 Aug 2018 20:08

Instrument :

MSVOA_N

ClientSampleId :

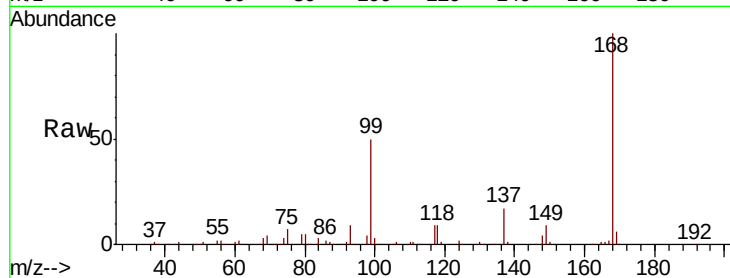
961-IW-22(17)

Tgt Ion:168 Resp: 625342

Ion Ratio Lower Upper

168 100

99 50.0 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): VN050587.D (-1871) (-)

Ion 98.90 (98.60 to 99.60): VN050587.D (-1871) (-)

7.67

250000

200000

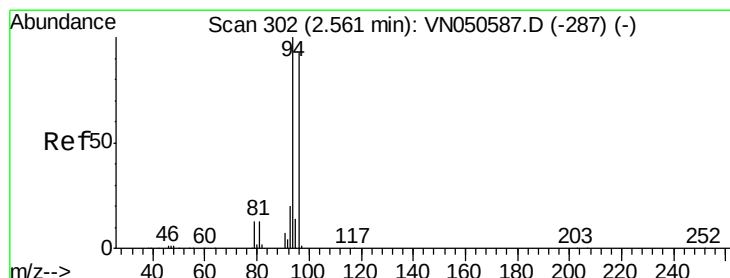
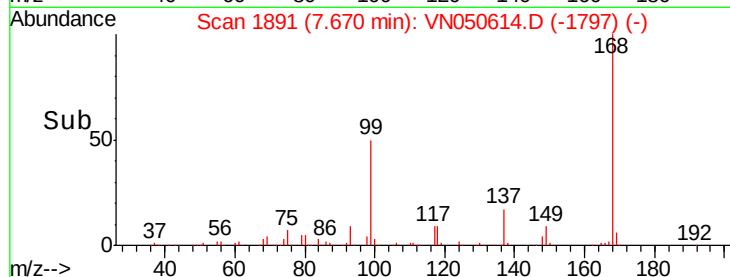
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN050614.D

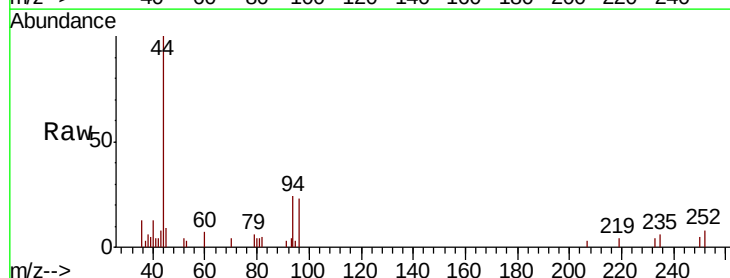
Acq: 14 Aug 2018 20:08

Tgt Ion: 94 Resp: 3241

Ion Ratio Lower Upper

94 100

96 83.8 74.0 111.0



Abundance Ion 93.90 (93.60 to 94.60): VN050587.D (-287) (-)

Ion 95.90 (95.60 to 96.60): VN050587.D (-287) (-)

2.57

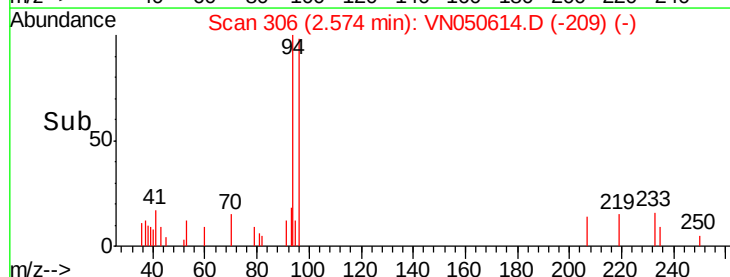
1500

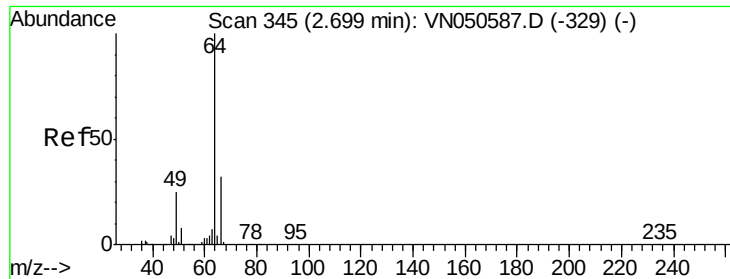
1000

500

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 2.71 min Scan# 348

Delta R.T. 0.01 min

Lab File: VN050614.D

Acq: 14 Aug 2018 20:08

Instrument :

MSVOA_N

ClientSampleId :

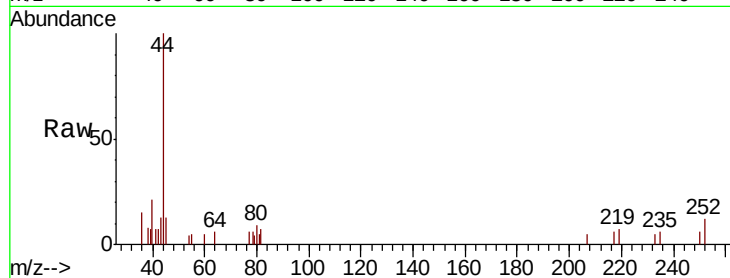
961-IW-22(17)

Tgt Ion: 64 Resp: 108

Ion Ratio Lower Upper

64 100

66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VN050587.D (-329) (-)

Ion 65.90 (65.60 to 66.60): VN050587.D (-329) (-)

250

200

150

100

50

0

2.70 2.71 2.72

2.71

2.71

2.71

2.71

2.71

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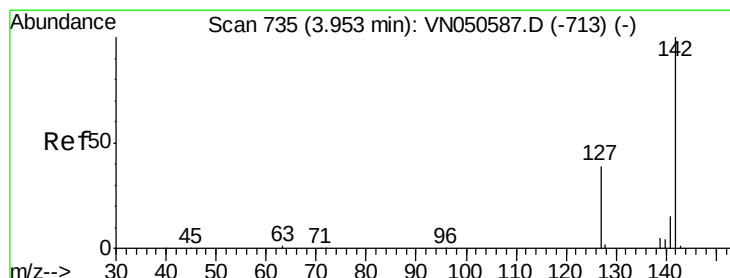
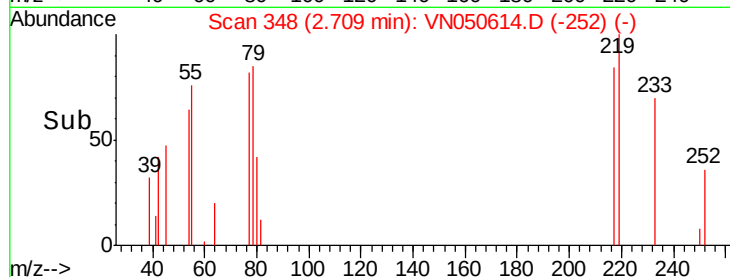
2.71

2.71

2.71

2.71

2.71



#10

Methyl Iodide

Concen: 7.048 ug/l

RT: 3.95 min Scan# 733

Delta R.T. -0.01 min

Lab File: VN050614.D

Acq: 14 Aug 2018 20:08

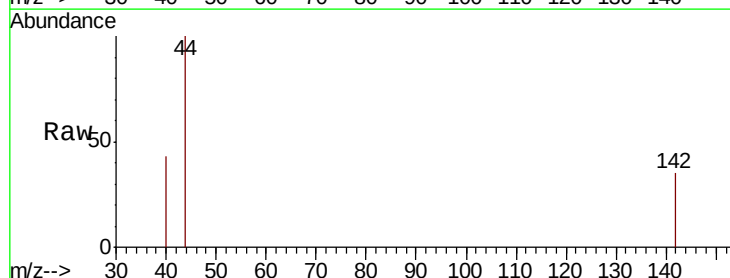
Tgt Ion: 142 Resp: 608

Ion Ratio Lower Upper

142 100

127 33.4 32.6 49.0

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): VN050587.D (-713) (-)

Ion 126.80 (126.50 to 127.50): VN050587.D (-713) (-)

Ion 140.80 (140.50 to 141.50): VN050587.D (-713) (-)

500

400

300

200

100

0

3.92 3.94 3.96

3.95

3.95

3.95

3.95

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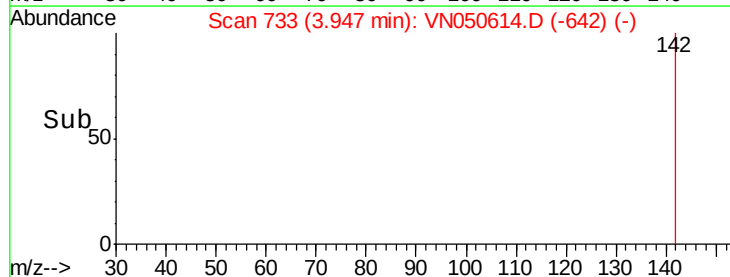
3.95

3.95

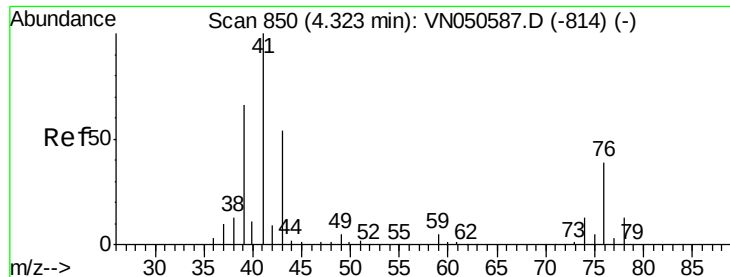
3.95

3.95

3.95



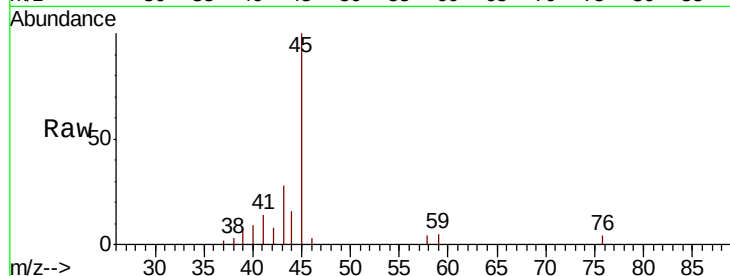
Time-->



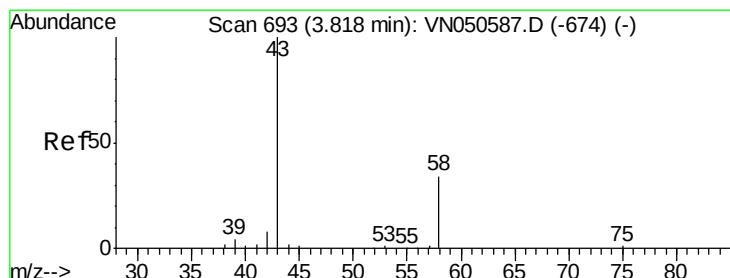
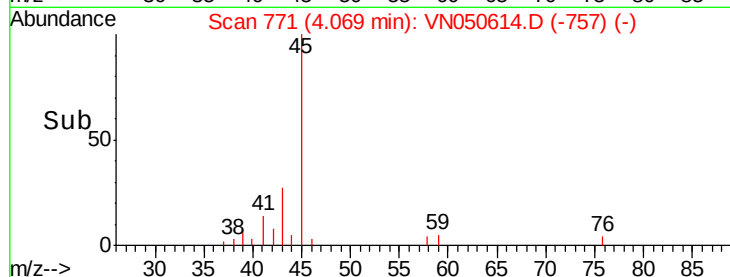
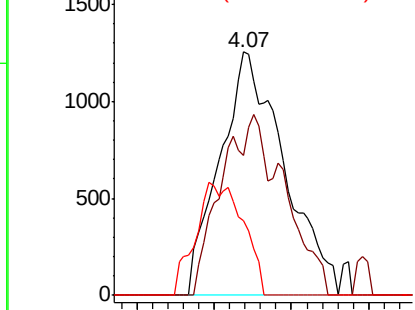
#14
 Allyl chloride
 Concen: 0.343 ug/l
 RT: 4.07 min Scan# 771
 Delta R.T. -0.25 min
 Lab File: VN050614.D
 Acq: 14 Aug 2018 20:08

Instrument :
 MSVOA_N
 ClientSampleId :
 961-IW-22(17)

Tgt Ion: 41 Resp: 3625
 Ion Ratio Lower Upper
 41 100
 39 7.9 51.4 77.0#
 76 0.0 29.4 44.0#

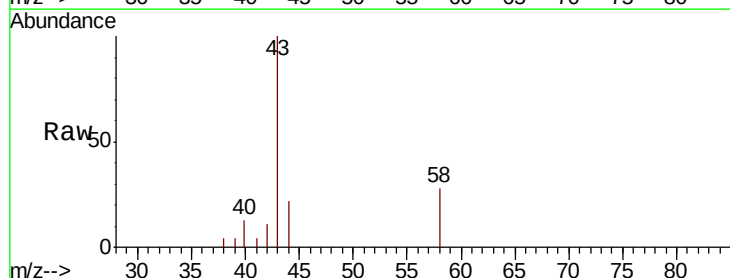


Abundance Ion 41.00 (40.70 to 41.70): VN0
 Ion 39.00 (38.70 to 39.70): VN0
 Ion 75.90 (75.60 to 76.60): VN0

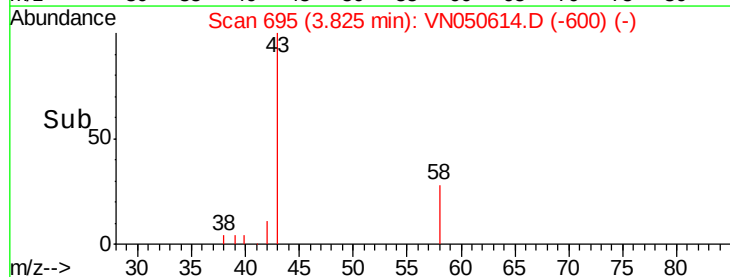
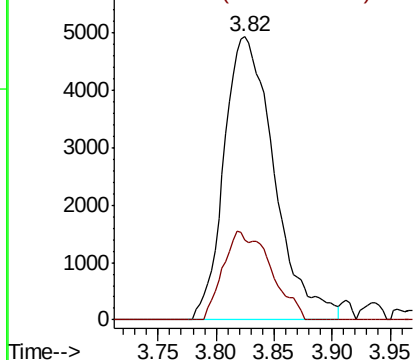


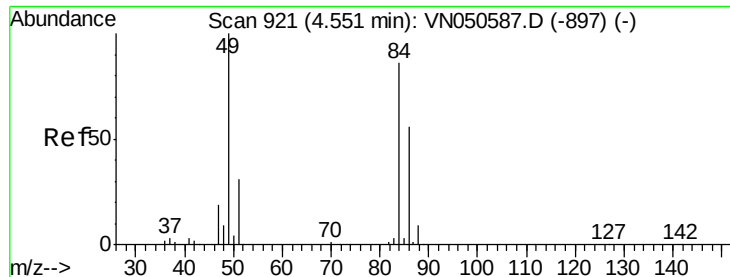
#16
 Acetone
 Concen: 6.121 ug/l
 RT: 3.82 min Scan# 695
 Delta R.T. 0.01 min
 Lab File: VN050614.D
 Acq: 14 Aug 2018 20:08

Tgt Ion: 43 Resp: 14830
 Ion Ratio Lower Upper
 43 100
 58 28.4 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

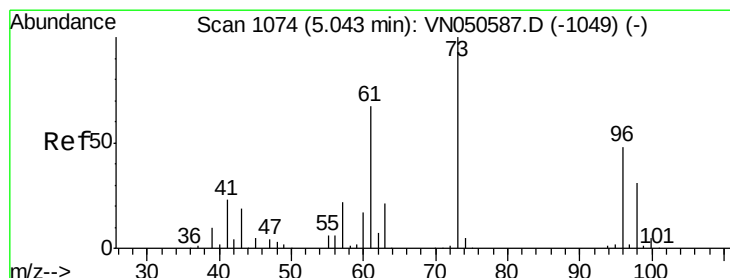
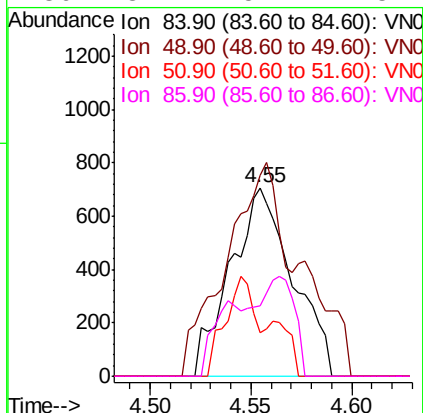
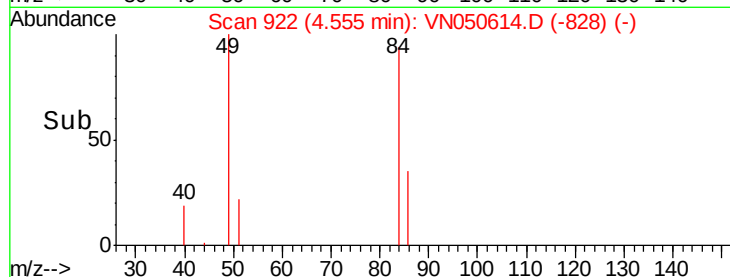
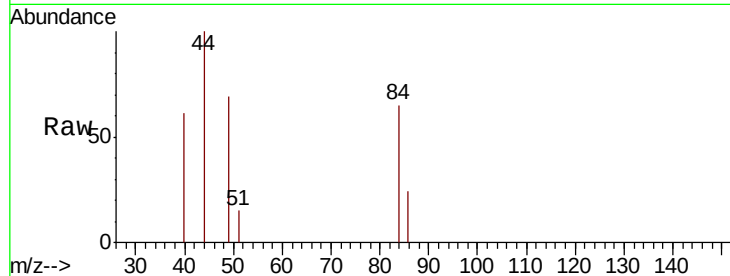




#20
Methylene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050614.D
Acq: 14 Aug 2018 20:08

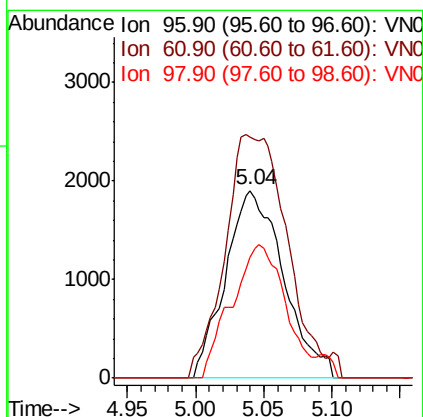
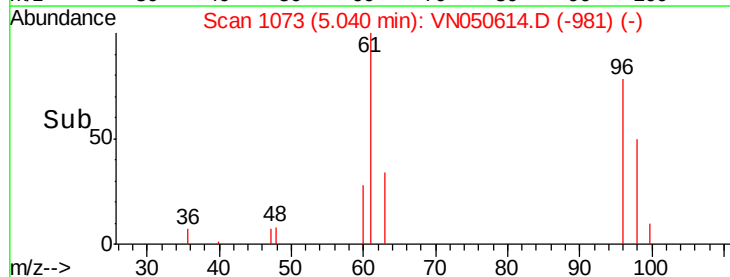
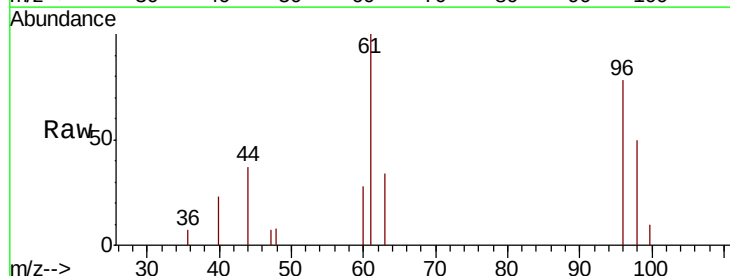
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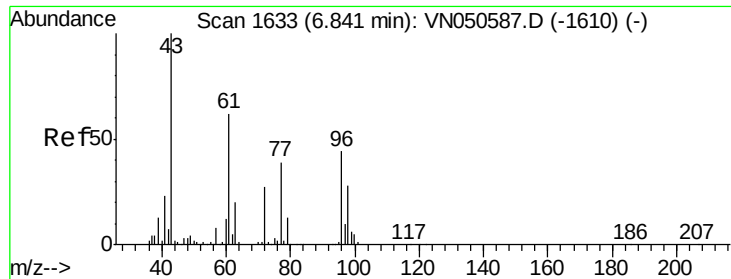
Tgt Ion: 84 Resp: 1511
Ion Ratio Lower Upper
84 100
49 81.8 92.6 138.8#
51 22.9 28.6 43.0#
86 37.1 52.2 78.2#



#21
trans-1,2-Dichloroethene
Concen: 0.765 ug/l
RT: 5.04 min Scan# 1073
Delta R.T. -0.00 min
Lab File: VN050614.D
Acq: 14 Aug 2018 20:08

Tgt Ion: 96 Resp: 5625
Ion Ratio Lower Upper
96 100
61 128.6 111.2 166.8
98 64.2 51.6 77.4

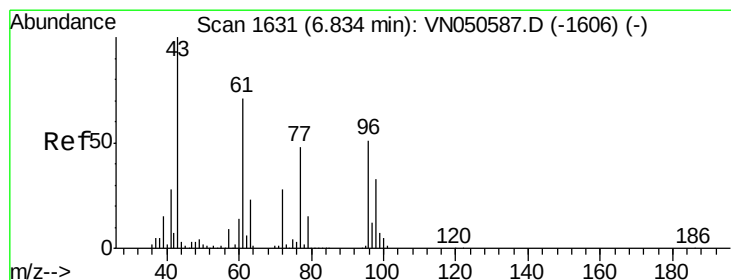
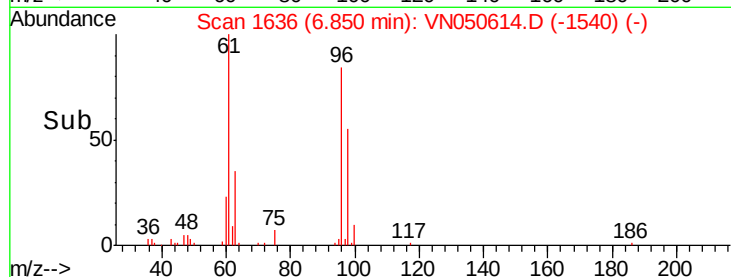
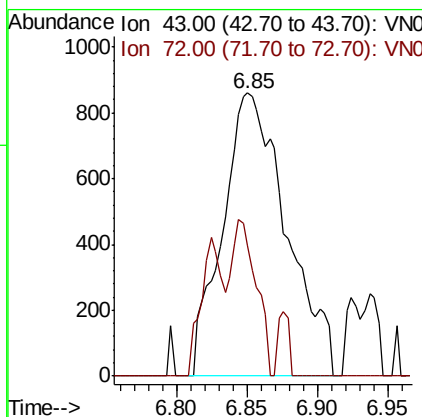
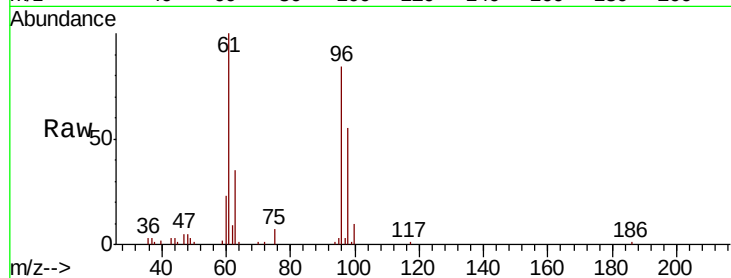




#25
 2-Butanone
 Concen: 0.843 ug/l
 RT: 6.85 min Scan# 1636
 Delta R.T. 0.01 min
 Lab File: VN050614.D
 Acq: 14 Aug 2018 20:08

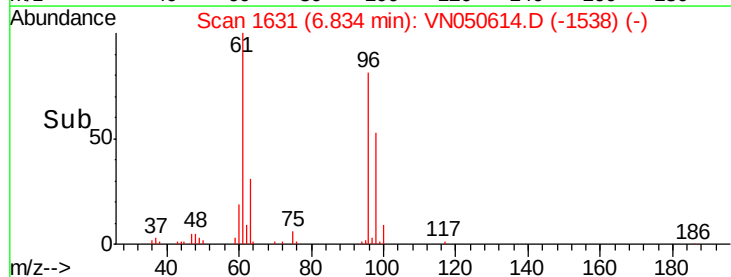
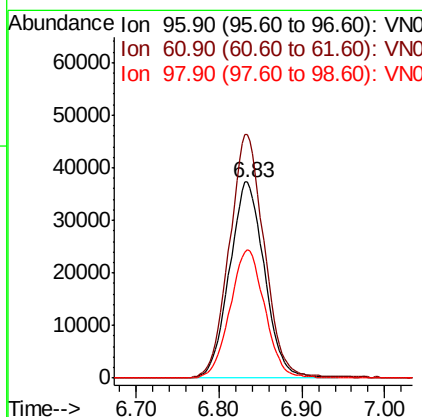
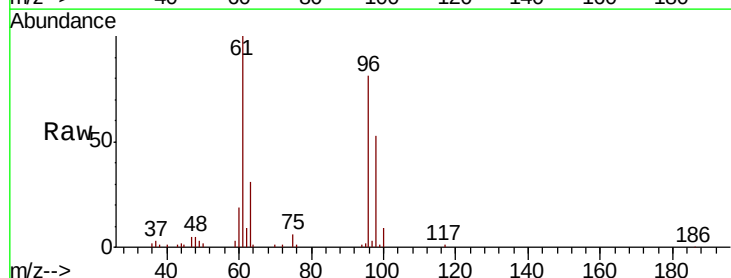
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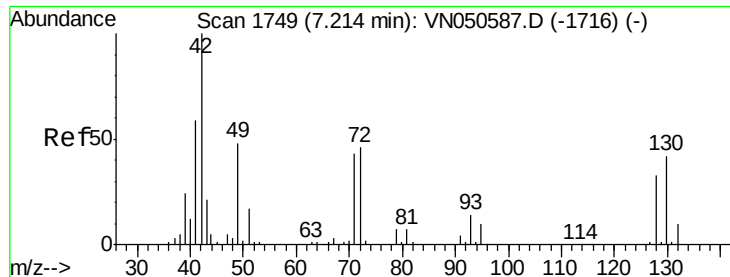
Tgt Ion: 43 Resp: 2725
 Ion Ratio Lower Upper
 43 100
 72 46.4 21.8 32.6#



#27
 cis-1,2-Dichloroethene
 Concen: 13.385 ug/l
 RT: 6.83 min Scan# 1631
 Delta R.T. -0.00 min
 Lab File: VN050614.D
 Acq: 14 Aug 2018 20:08

Tgt Ion: 96 Resp: 109642
 Ion Ratio Lower Upper
 96 100
 61 123.9 0.0 278.2
 98 64.9 0.0 128.8





#29

Tetrahydrofuran

Concen: 0.441 ug/l

RT: 7.23 min Scan# 1754

Delta R.T. 0.02 min

Lab File: VN050614.D

Acq: 14 Aug 2018 20:08

Instrument :

MSVOA_N

ClientSampled :

961-IW-22(17)

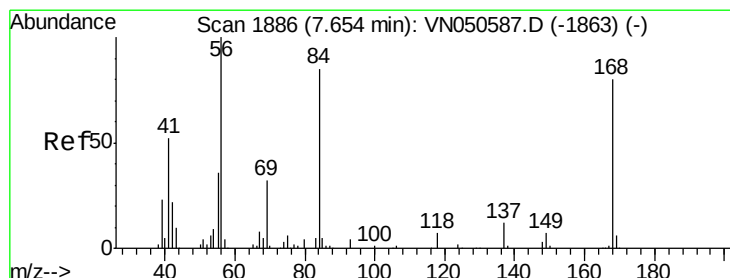
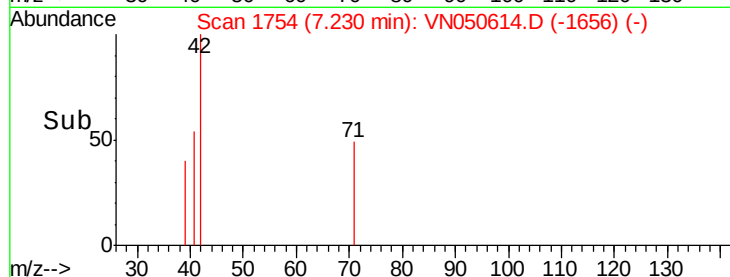
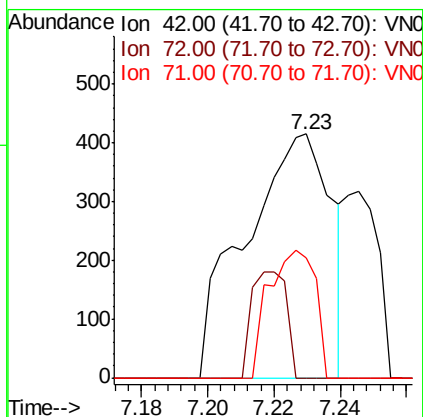
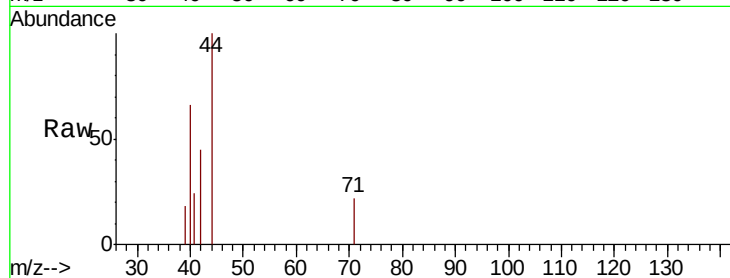
Tgt Ion: 42 Resp: 745

Ion Ratio Lower Upper

42 100

72 17.6 35.8 53.6#

71 28.6 33.4 50.0#



#31

Cyclohexane

Concen: 0.710 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.02 min

Lab File: VN050614.D

Acq: 14 Aug 2018 20:08

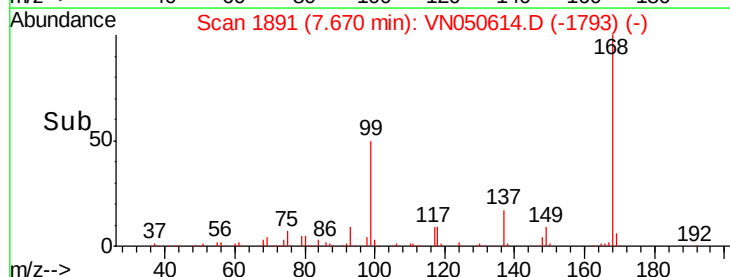
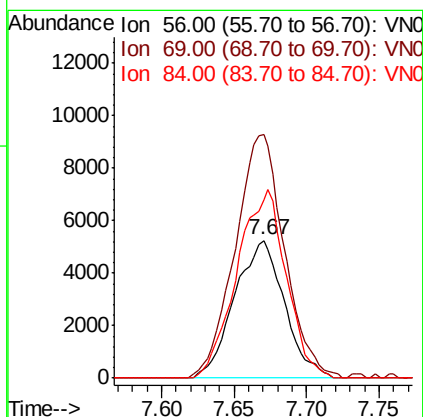
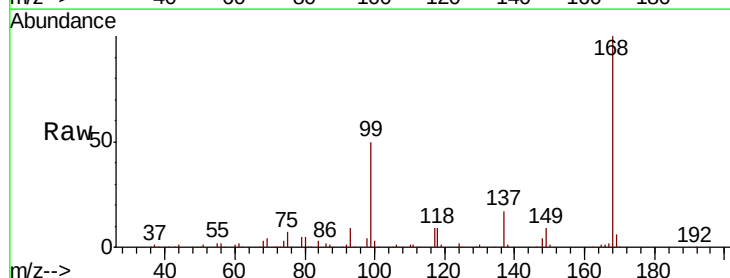
Tgt Ion: 56 Resp: 12555

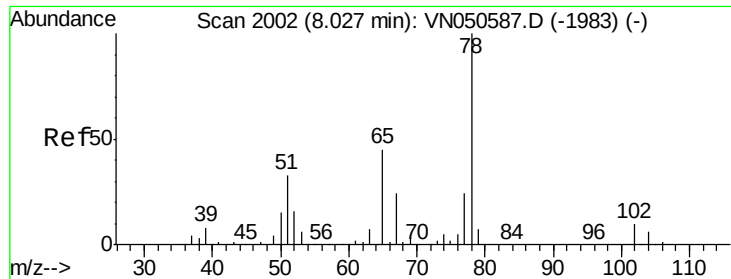
Ion Ratio Lower Upper

56 100

69 176.5 25.8 38.6#

84 129.2 67.8 101.6#

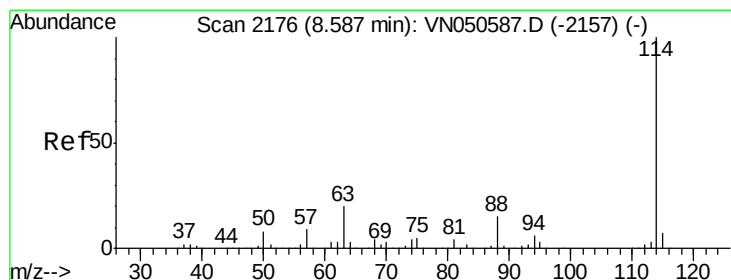
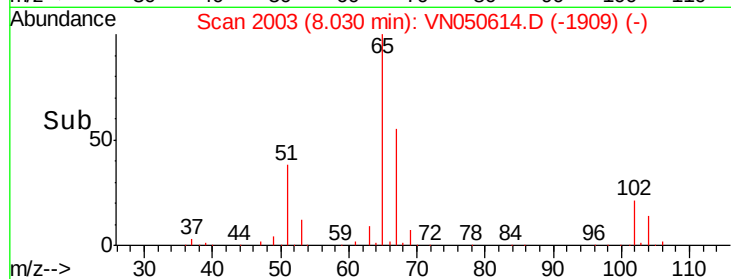
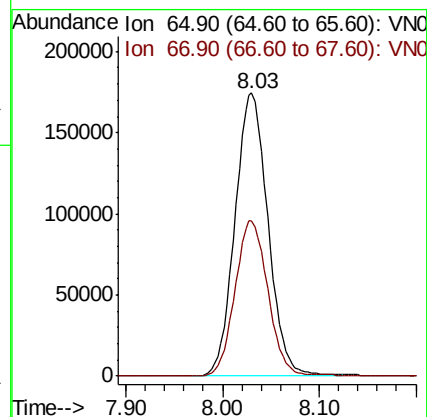
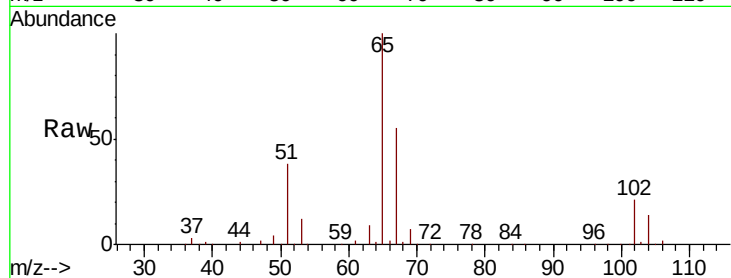




#33
 1,2-Dichloroethane-d4
 Concen: 52.528 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050614.D
 Acq: 14 Aug 2018 20:08

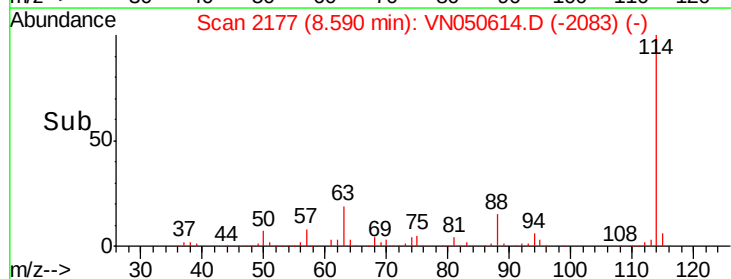
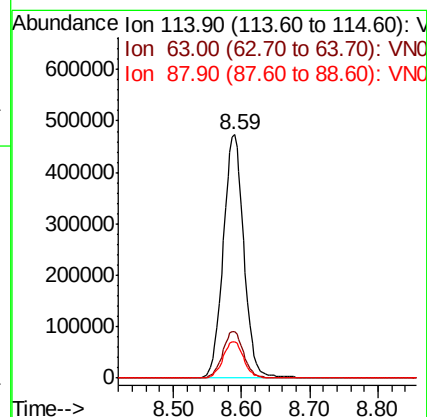
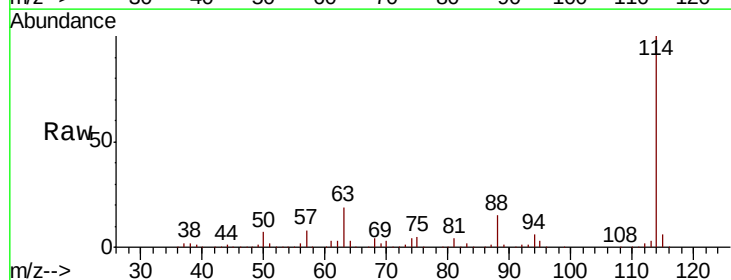
Instrument :
 MSVOA_N
 ClientSampleId :
 961-IW-22(17)

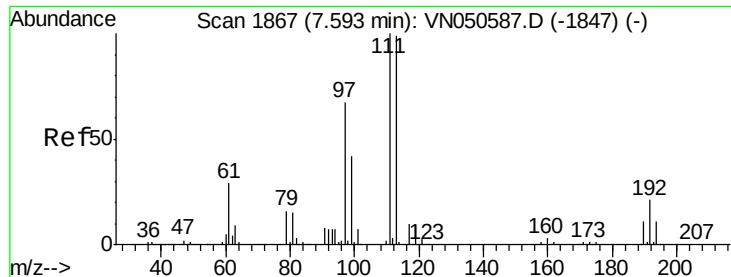
Tgt Ion: 65 Resp: 414054
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 109.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050614.D
 Acq: 14 Aug 2018 20:08

Tgt Ion: 114 Resp: 990321
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 40.0
 88 15.1 0.0 30.8

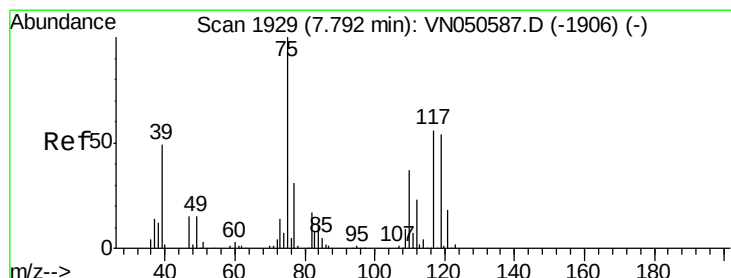
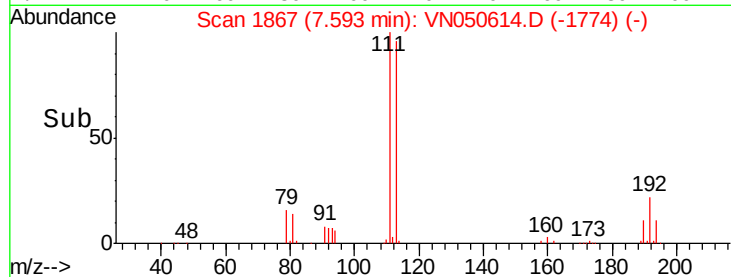
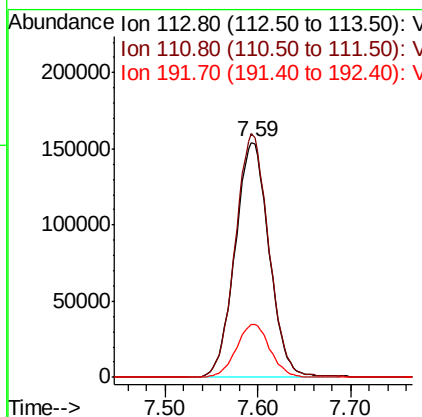
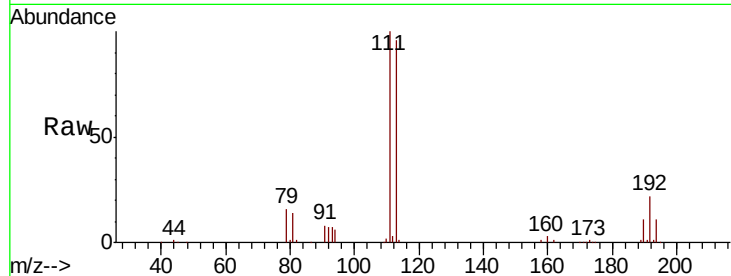




#35
 Dibromofluoromethane
 Concen: 49.634 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050614.D
 Acq: 14 Aug 2018 20:08

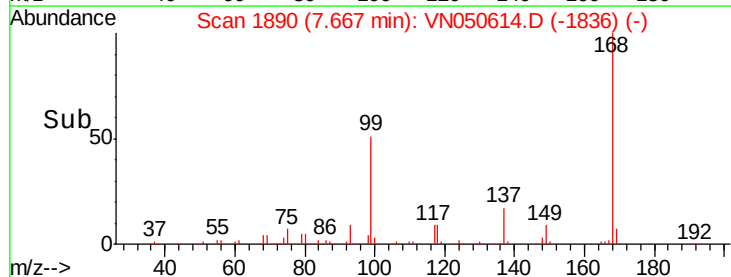
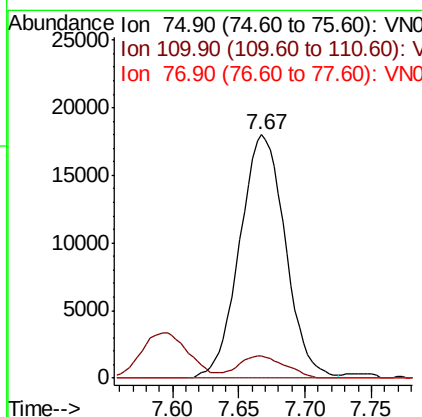
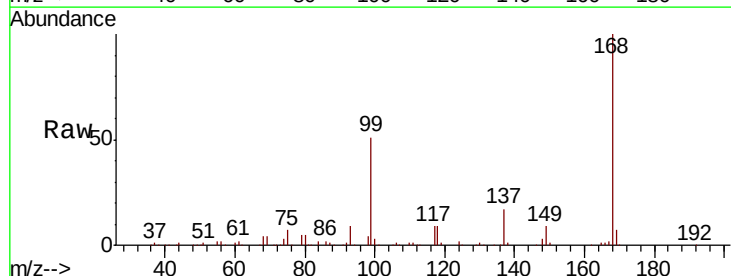
Instrument :
 MSVOA_N
 ClientSampleId :
 961-IW-22(17)

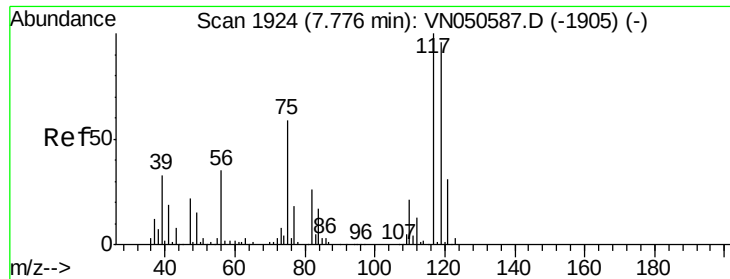
Tgt Ion:113 Resp: 392424
 Ion Ratio Lower Upper
 113 100
 111 102.7 81.0 121.6
 192 22.4 17.6 26.4



#36
 1,1-Dichloropropene
 Concen: 3.915 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050614.D
 Acq: 14 Aug 2018 20:08

Tgt Ion: 75 Resp: 43156
 Ion Ratio Lower Upper
 75 100
 110 9.3 18.3 54.9#
 77 0.0 25.0 37.4#

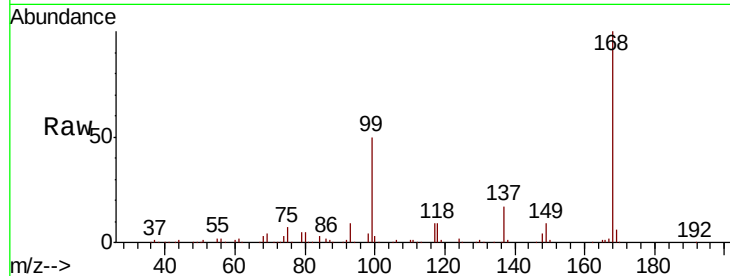




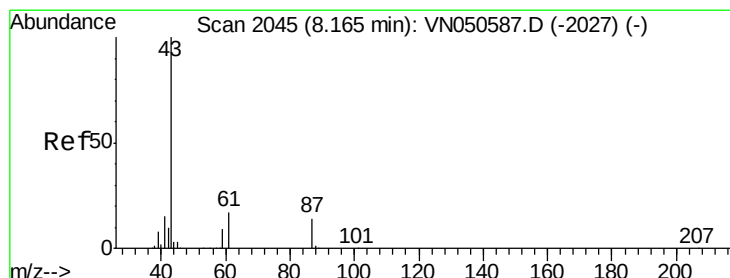
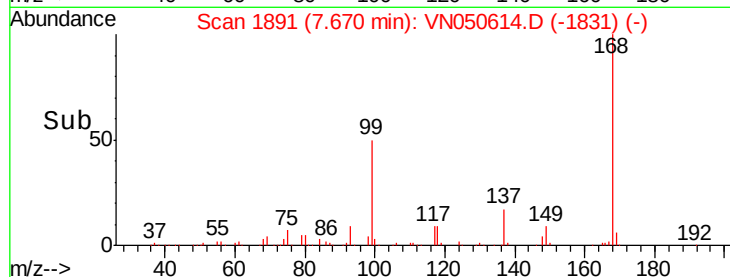
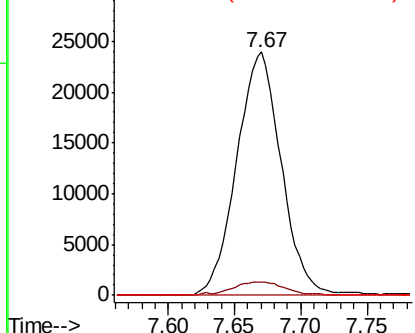
#38
Carbon Tetrachloride
Concen: 4.879 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN050614.D
Acq: 14 Aug 2018 20:08

Instrument :
MSVOA_N
ClientSampleId :
961-IW-22(17)

Tgt Ion: 117 Resp: 55802
Ion Ratio Lower Upper
117 100
119 5.7 76.6 115.0#
121 0.0 25.0 37.6#

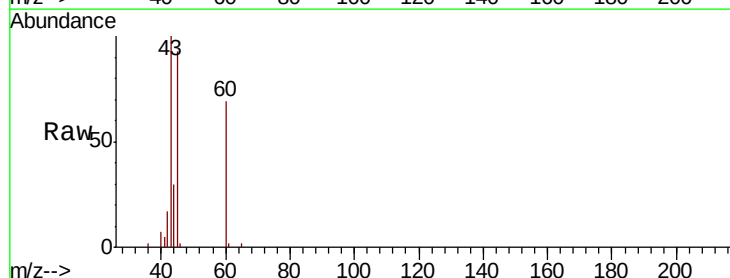


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

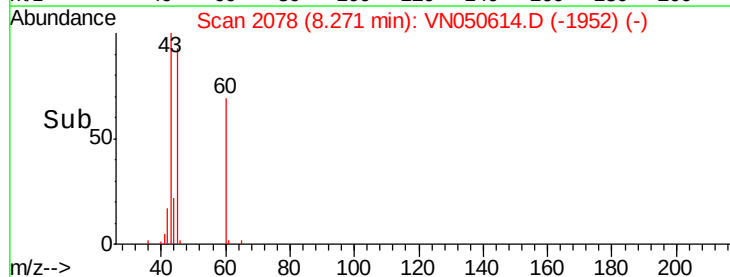
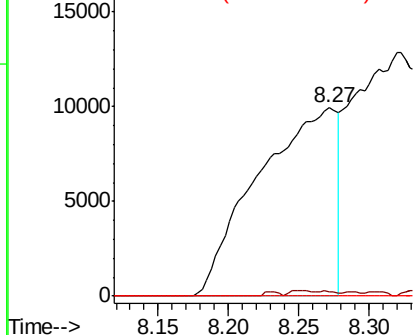


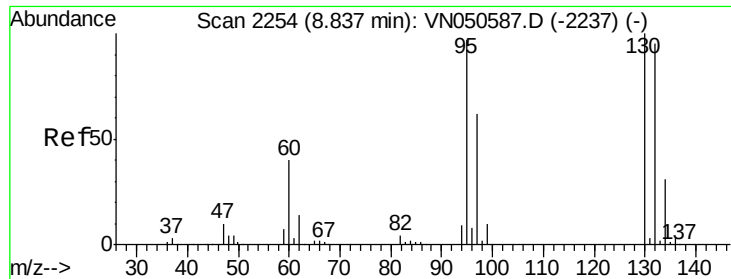
#43
Isopropyl Acetate
Concen: 3.418 ug/l
RT: 8.27 min Scan# 2078
Delta R.T. 0.11 min
Lab File: VN050614.D
Acq: 14 Aug 2018 20:08

Tgt Ion: 43 Resp: 38811
Ion Ratio Lower Upper
43 100
61 0.0 16.2 24.2#
87 0.0 10.9 16.3#



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

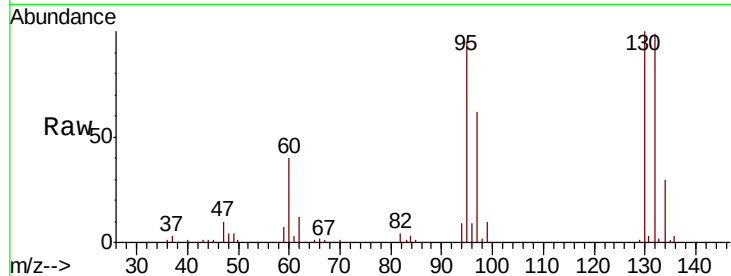




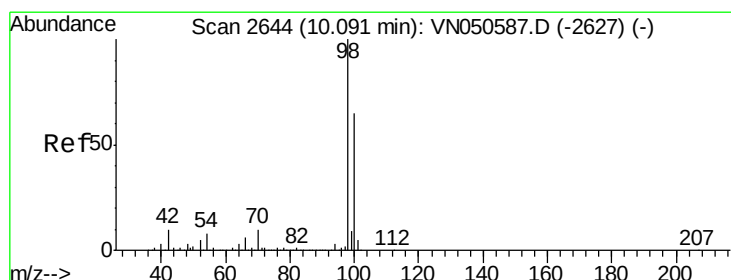
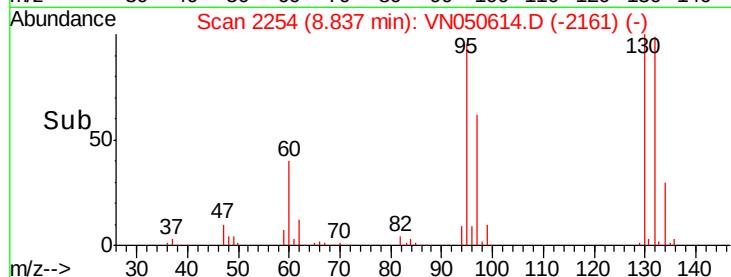
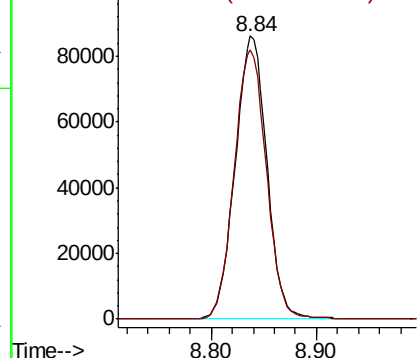
#44
 Trichloroethene
 Concen: 19.934 ug/l
 RT: 8.84 min Scan# 2254
 Delta R.T. -0.00 min
 Lab File: VN050614.D
 Acq: 14 Aug 2018 20:08

Instrument :
 MSVOA_N
 ClientSampleId :
 961-IW-22(17)

Tgt Ion:130 Resp: 179078
 Ion Ratio Lower Upper
 130 100
 95 95.3 0.0 193.8

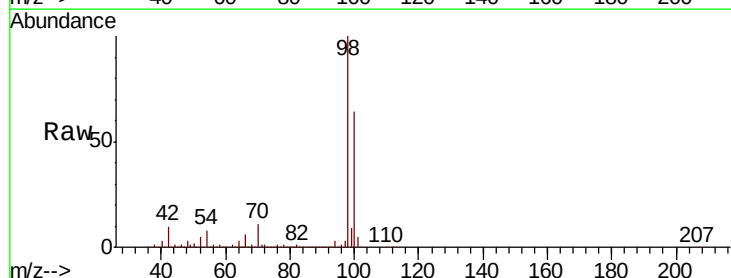


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VN

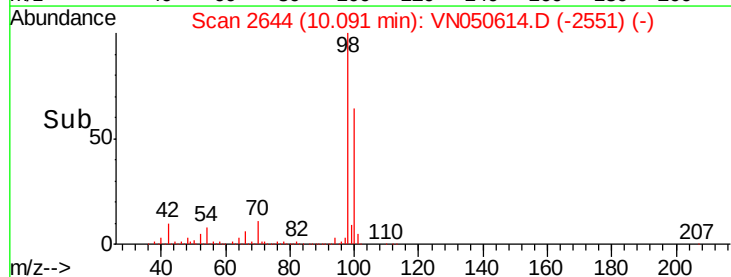
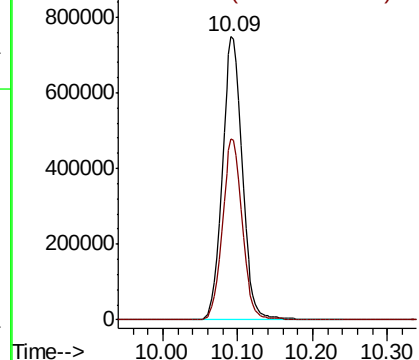


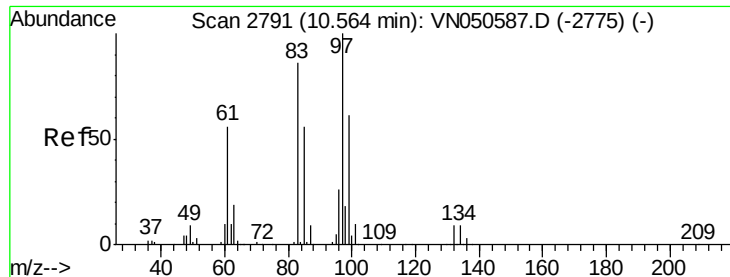
#50
 Toluene-d8
 Concen: 46.325 ug/l
 RT: 10.09 min Scan# 2644
 Delta R.T. -0.00 min
 Lab File: VN050614.D
 Acq: 14 Aug 2018 20:08

Tgt Ion: 98 Resp: 1378457
 Ion Ratio Lower Upper
 98 100
 100 63.3 51.8 77.8



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

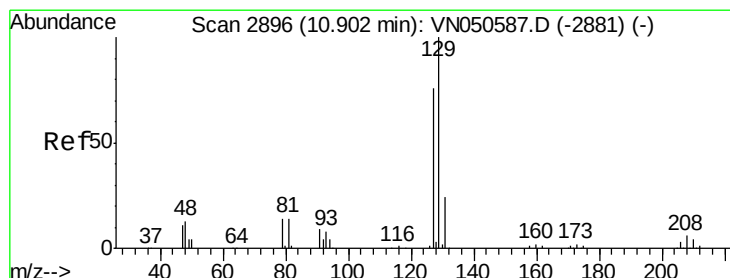
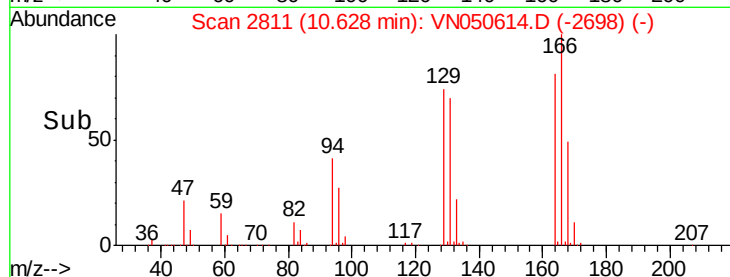
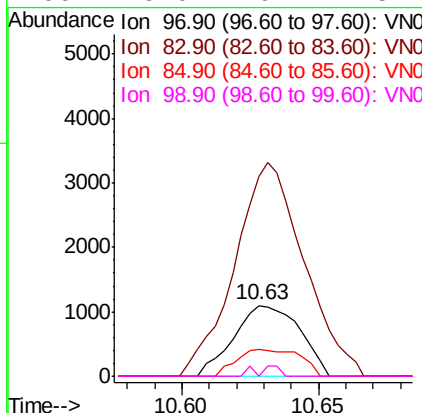
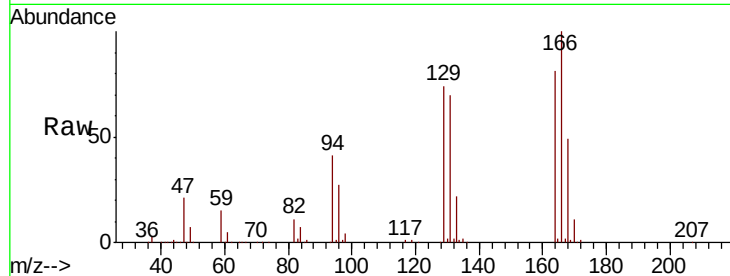




#55
 1,1,2-Trichloroethane
 Concen: 0.247 ug/l
 RT: 10.63 min Scan# 2811
 Delta R.T. 0.06 min
 Lab File: VN050614.D
 Acq: 14 Aug 2018 20:08

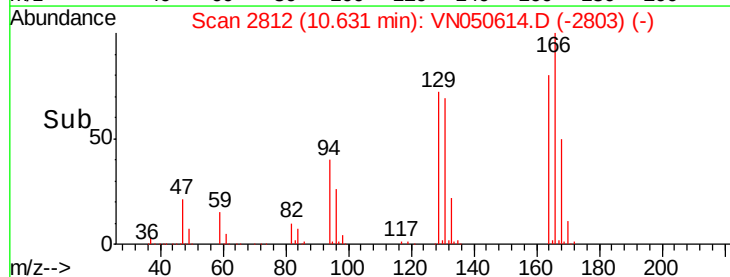
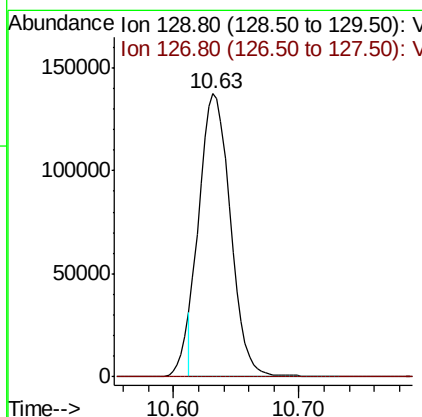
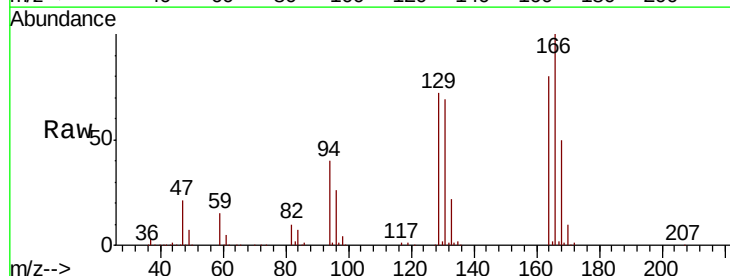
Instrument :
 MSVOA_N
 ClientSampleId :
 961-IW-22(17)

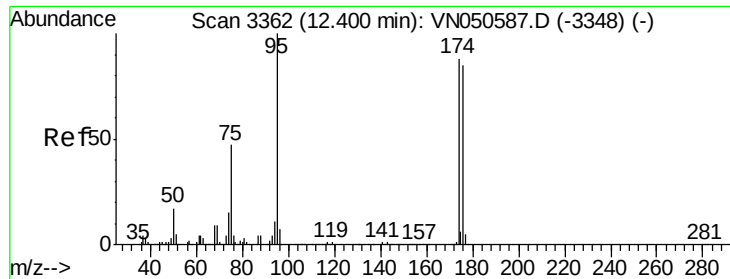
Tgt Ion: 97 Resp: 1846
 Ion Ratio Lower Upper
 97 100
 83 263.9 68.5 102.7#
 85 37.6 44.6 66.8#
 99 0.0 49.1 73.7#



#60
 Dibromochloromethane
 Concen: 28.545 ug/l
 RT: 10.63 min Scan# 2812
 Delta R.T. -0.27 min
 Lab File: VN050614.D
 Acq: 14 Aug 2018 20:08

Tgt Ion: 129 Resp: 235671
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.9 116.7#





#62

4-Bromofluorobenzene

Concen: 36.640 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050614.D

Acq: 14 Aug 2018 20:08

Instrument :

MSVOA_N

ClientSampleId :

961-IW-22(17)

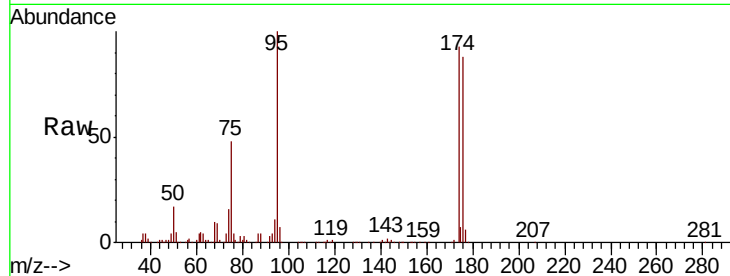
Tgt Ion: 95 Resp: 360178

Ion Ratio Lower Upper

95 100

174 92.2 0.0 177.8

176 87.1 0.0 175.0

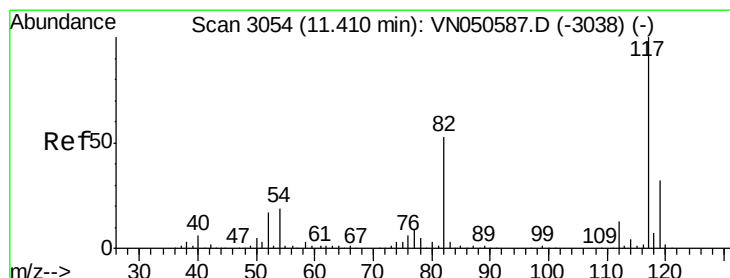
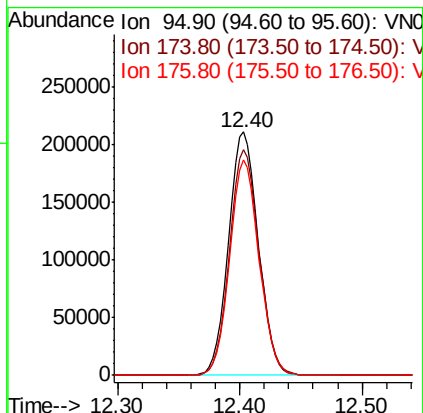
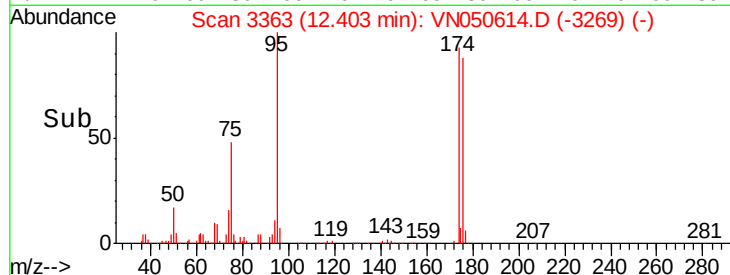


Abundance Ion 94.90 (94.60 to 95.60): VN050587.D (-3348) (-)

Ion 173.80 (173.50 to 174.50): VN050587.D (-3348) (-)

Ion 175.80 (175.50 to 176.50): VN050587.D (-3348) (-)

12.40



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN050614.D

Acq: 14 Aug 2018 20:08

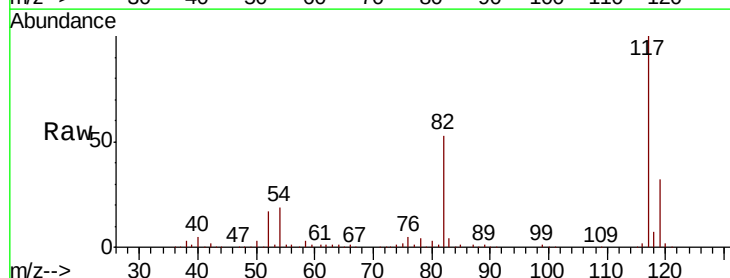
Tgt Ion: 117 Resp: 832026

Ion Ratio Lower Upper

117 100

82 53.3 42.4 63.6

119 32.2 25.8 38.8

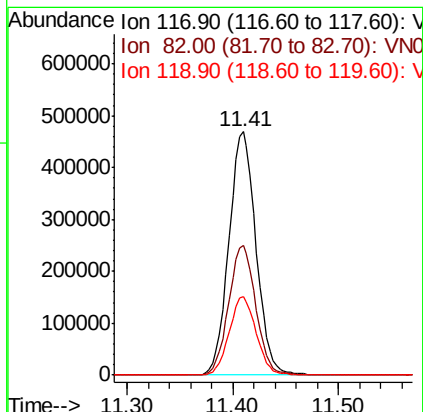
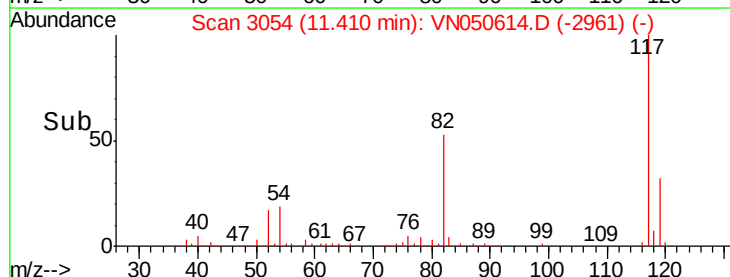


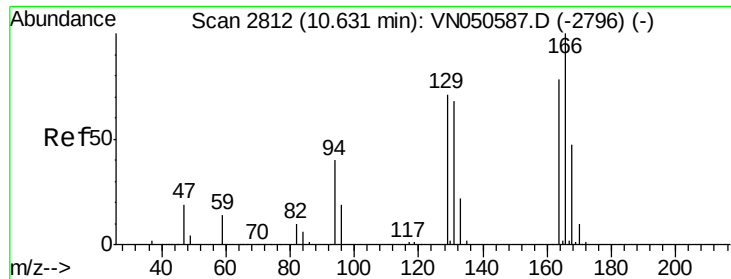
Abundance Ion 116.90 (116.60 to 117.60): VN050587.D (-3038) (-)

Ion 82.00 (81.70 to 82.70): VN050587.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN050587.D (-3038) (-)

11.41





#64

Tetrachloroethene

Concen: 35.597 ug/l

RT: 10.63 min Scan# 2812

Delta R.T. -0.00 min

Lab File: VN050614.D

Acq: 14 Aug 2018 20:08

Instrument :

MSVOA_N

ClientSampleId :

961-IW-22(17)

Tgt Ion:164 Resp: 275051

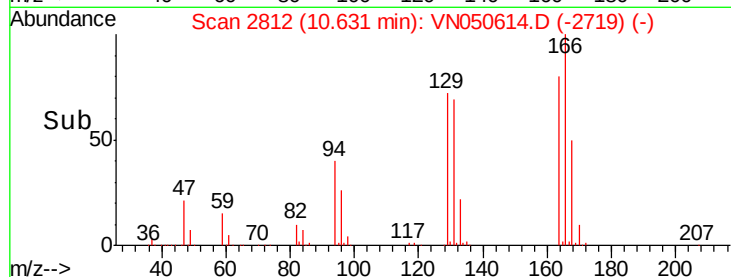
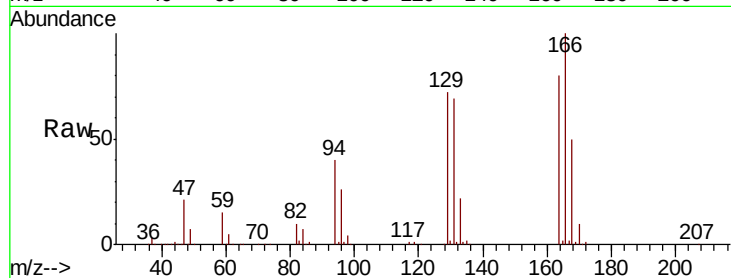
Ion Ratio Lower Upper

164 100

166 125.6 102.1 153.1

129 90.4 72.7 109.1

131 86.2 69.9 104.9

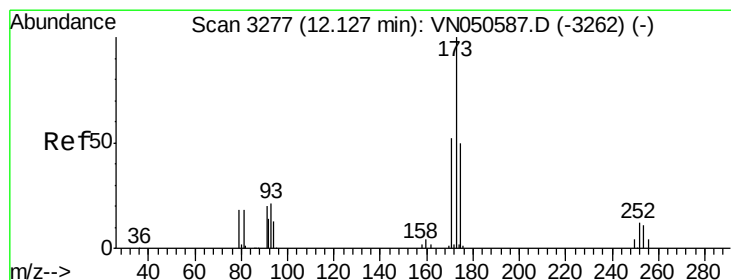
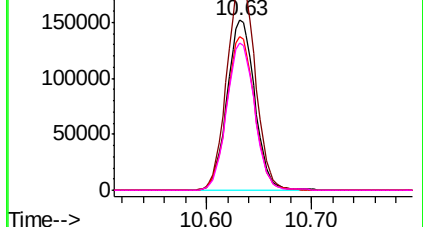


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 0.255 ug/l

RT: 12.40 min Scan# 3361

Delta R.T. 0.27 min

Lab File: VN050614.D

Acq: 14 Aug 2018 20:08

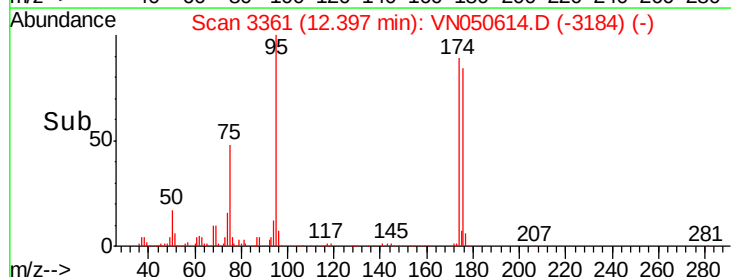
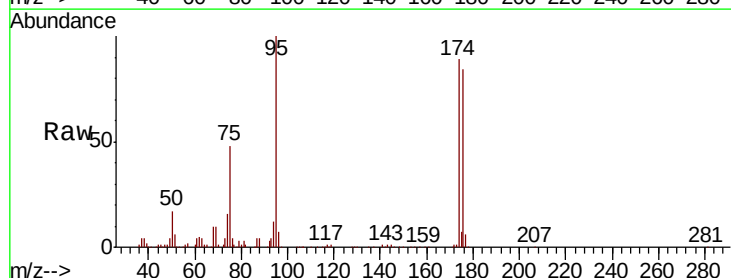
Tgt Ion:173 Resp: 1315

Ion Ratio Lower Upper

173 100

175 1513.2 24.4 73.2#

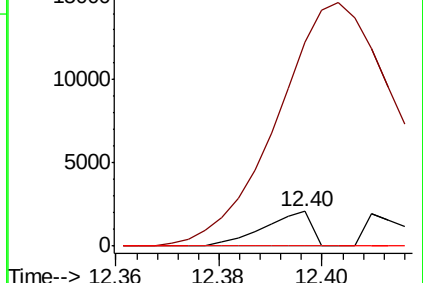
254 0.0 0.0 0.0

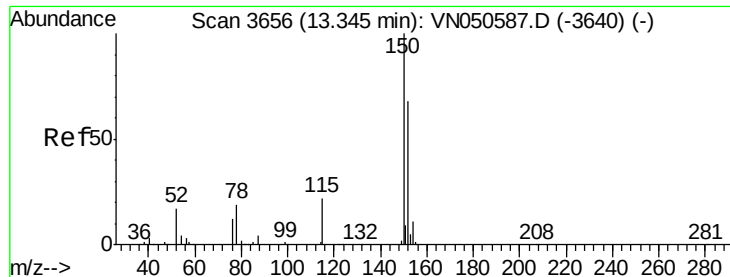


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN050614.D

Acq: 14 Aug 2018 20:08

Instrument :

MSVOA_N

ClientSampleId :

961-IW-22(17)

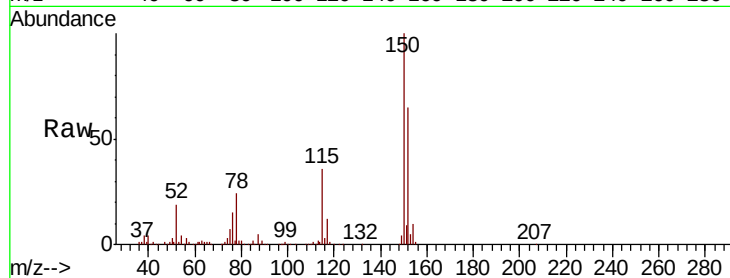
Tgt Ion:152 Resp: 289192

Ion Ratio Lower Upper

152 100

115 55.6 28.1 84.2

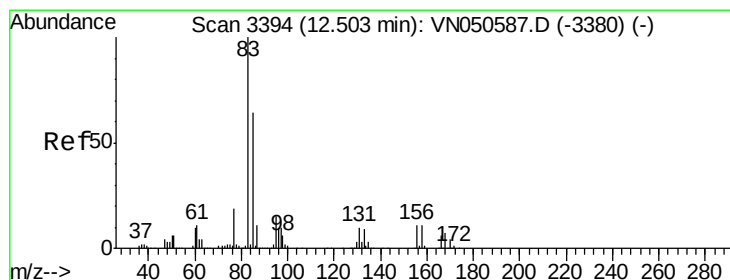
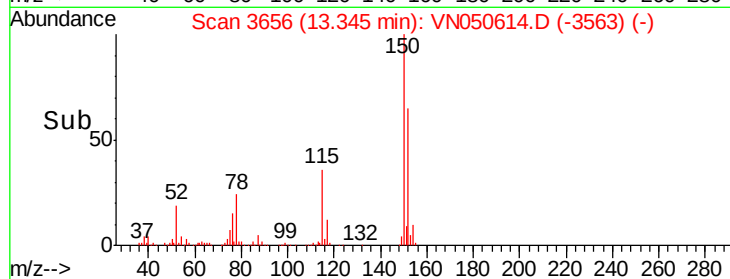
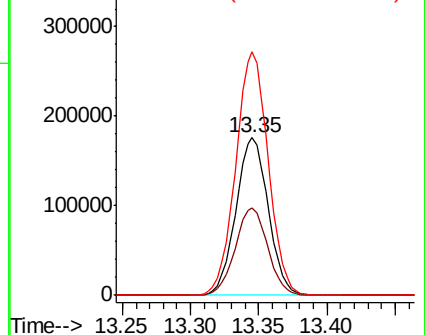
150 155.1 0.0 347.8



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



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3364

Delta R.T. -0.10 min

Lab File: VN050614.D

Acq: 14 Aug 2018 20:08

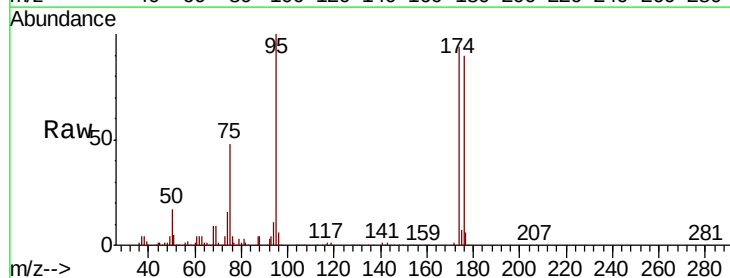
Tgt Ion: 83 Resp: 111

Ion Ratio Lower Upper

83 100

131 218.0 5.3 15.9#

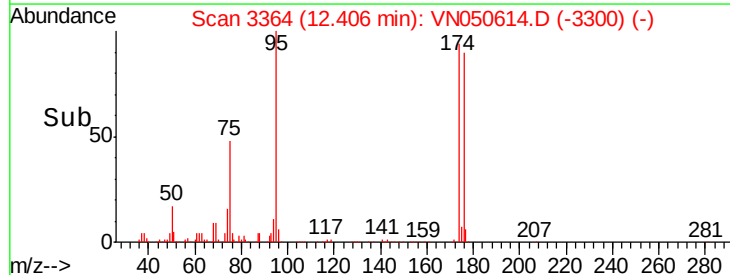
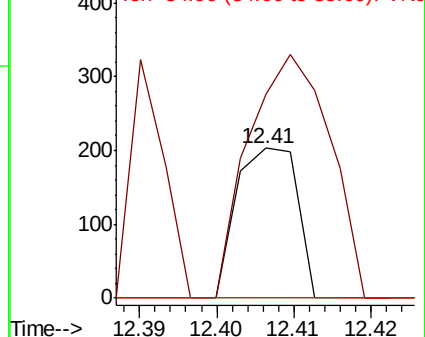
85 0.0 32.1 96.5#

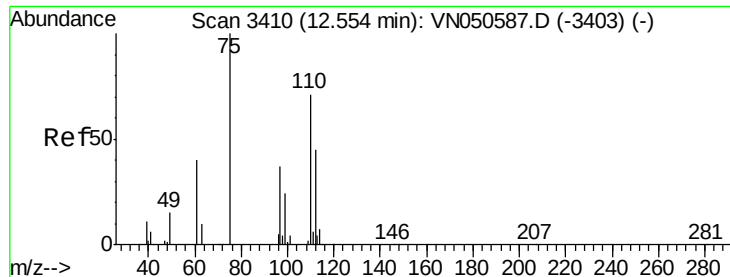


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 36.377 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050614.D

Acq: 14 Aug 2018 20:08

Instrument :

MSVOA_N

ClientSampleId :

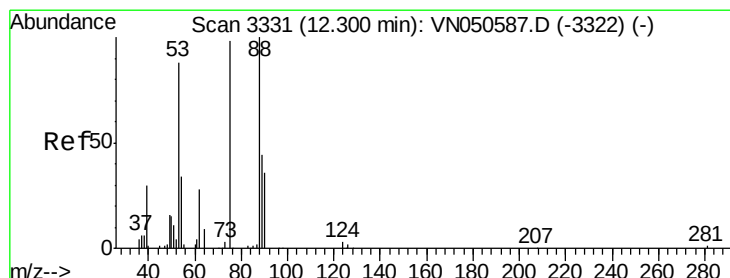
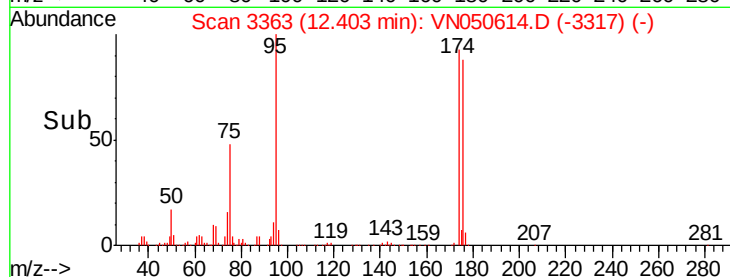
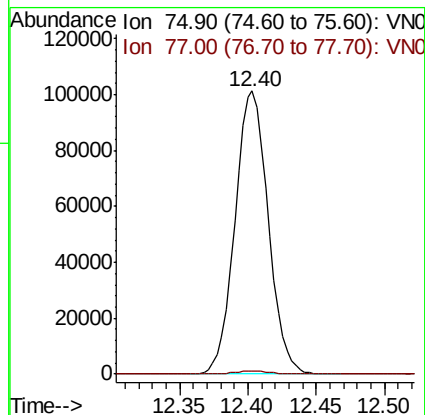
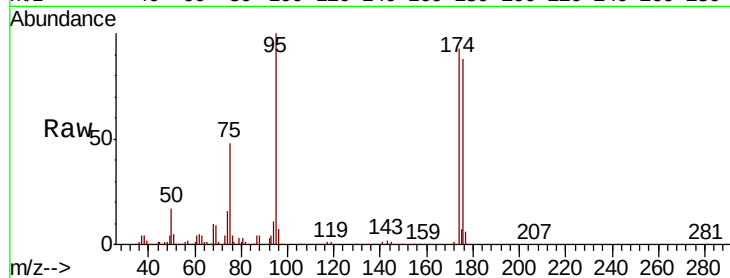
961-IW-22(17)

Tgt Ion: 75 Resp: 171273

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 131.669 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050614.D

Acq: 14 Aug 2018 20:08

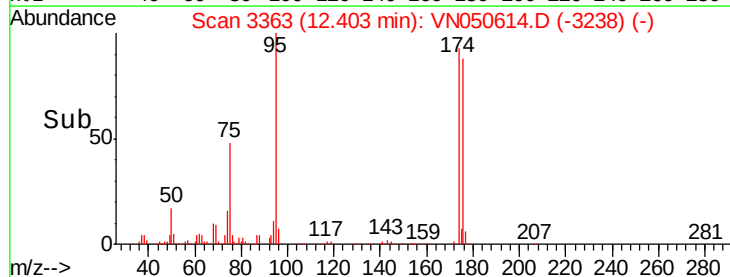
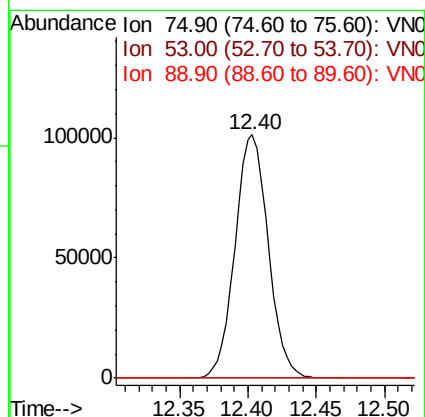
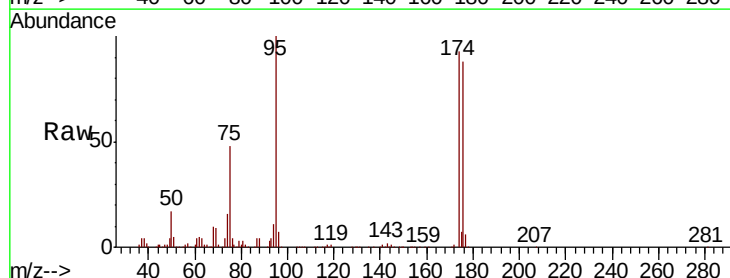
Tgt Ion: 75 Resp: 171273

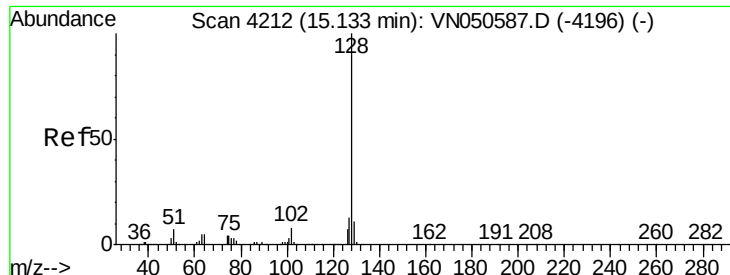
Ion Ratio Lower Upper

75 100

53 0.2 72.2 108.2#

89 0.0 36.3 54.5#

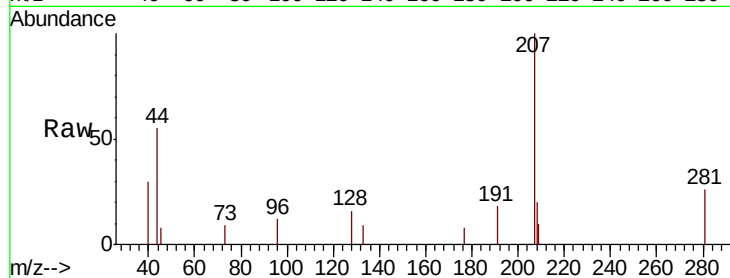




#95
Naphthalene
Concen: 3.887 ug/l
RT: 15.13 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN050614.D
Acq: 14 Aug 2018 20:08

Instrument :
MSVOA_N
ClientSampleId :
961-IW-22(17)

Tgt Ion:128 Resp: 318
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 8.5 12.7#



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

