

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062018\
 Data File : VN049436.D
 Acq On : 20 Jun 2018 14:45
 Operator : MD\SY
 Sample : VN0620WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 21 01:27:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:02:01 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1686526	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2658116	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2231015	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	736784	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	1103531	49.33	ug/l	0.00
Spiked Amount			Recovery	=	98.66%	
35) Dibromofluoromethane	7.59	113	983103	45.71	ug/l	0.00
Spiked Amount			Recovery	=	91.42%	
50) Toluene-d8	10.09	98	3671376	44.84	ug/l	0.00
Spiked Amount			Recovery	=	89.68%	
62) 4-Bromofluorobenzene	12.40	95	991042	36.60	ug/l	0.00
Spiked Amount			Recovery	=	73.20%	

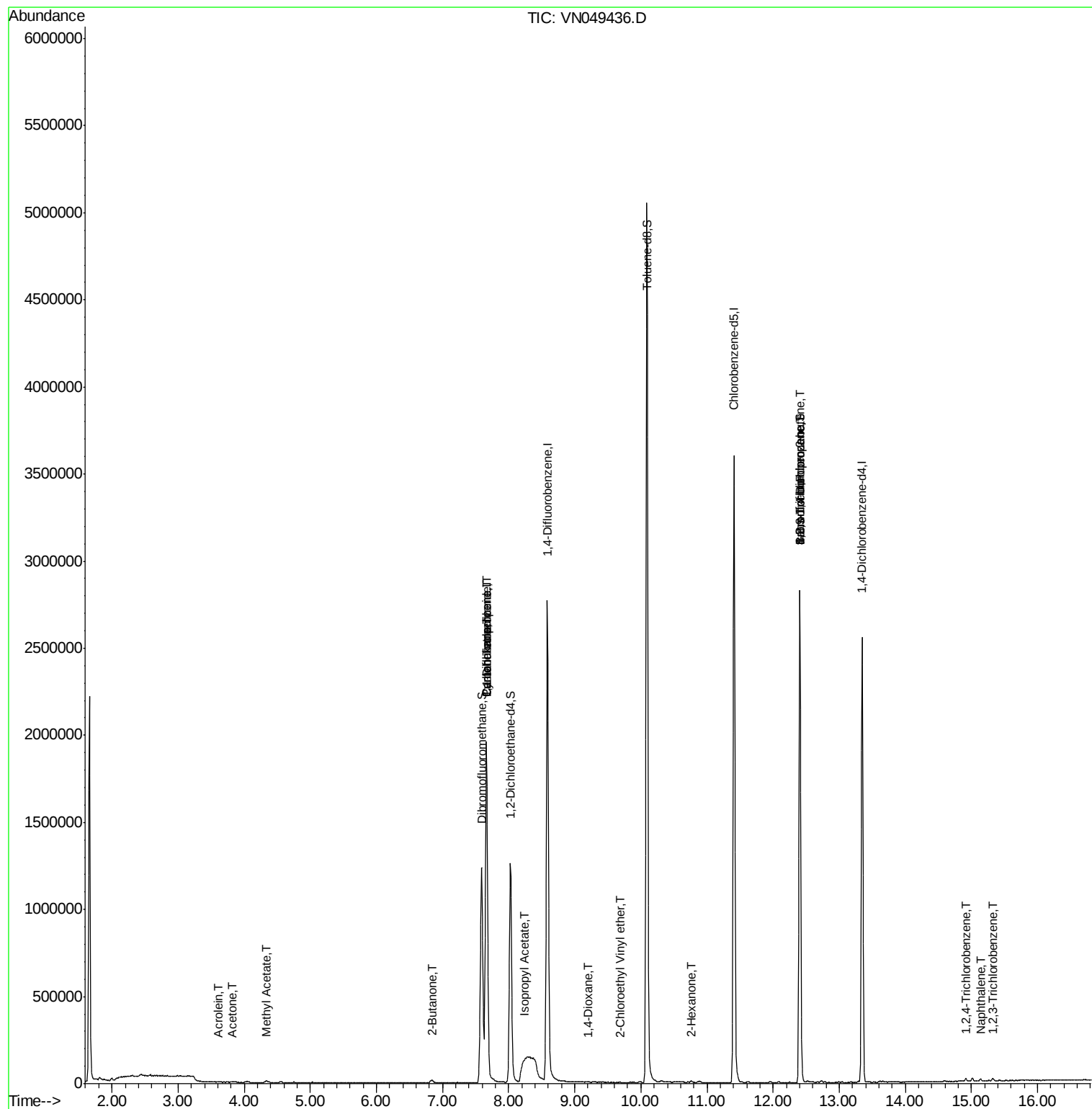
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	970	0.70	ug/l #	53
16) Acetone	3.83	43	5243	0.97	ug/l #	79
18) Methyl Acetate	4.34	43	17333	1.05	ug/l	93
25) 2-Butanone	6.85	43	1986	0.27	ug/l #	75
31) Cyclohexane	7.66	56	31983	0.79	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	117994	3.87	ug/l #	50
38) Carbon Tetrachloride	7.66	117	153247	4.86	ug/l #	16
43) Isopropyl Acetate	8.22	43	110199	3.48	ug/l #	64
49) 1,4-Dioxane	9.19	88	398	1.94	ug/l #	52
58) 2-Chloroethyl Vinyl ether	9.70	63	33	14.33	ug/l #	51
59) 2-Hexanone	10.76	43	5175	0.48	ug/l	96
71) Bromoform	12.40	173	3304	0.24	ug/l #	28
75) 1,1,2,2-Tetrachloroethane	12.51	83	810	Below Cal	#	84
76) 1,2,3-Trichloropropane	12.40	75	480633	38.23	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	480633	120.83	ug/l #	9
90) Hexachloroethane	13.88	117	387	Below Cal	#	28
93) 1,2,4-Trichlorobenzene	14.91	180	4881	5.09	ug/l	94
94) Hexachlorobutadiene	15.01	225	3457	Below Cal		94
95) Naphthalene	15.13	128	10355	2.59	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	4476	3.79	ug/l	92

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

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Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:02:01 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049436.D

Acq: 20 Jun 2018 14:45

Instrument :

MSVOA_N

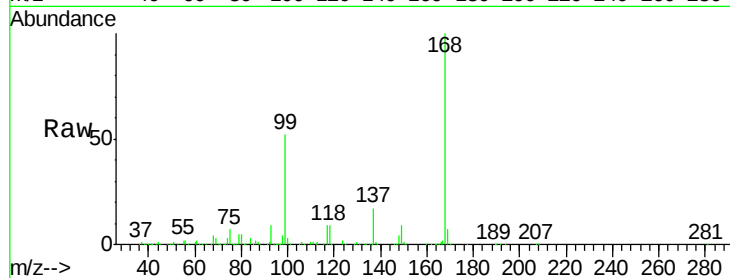
ClientSampleId :

Tot Ion:168 Resp: 1686526

Ion Ratio Lower Upper

168 100

99 52.3 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): VN049436.D (-1797) (-)

Ion 98.90 (98.60 to 99.60): VN049436.D (-1797) (-)

7.67

800000

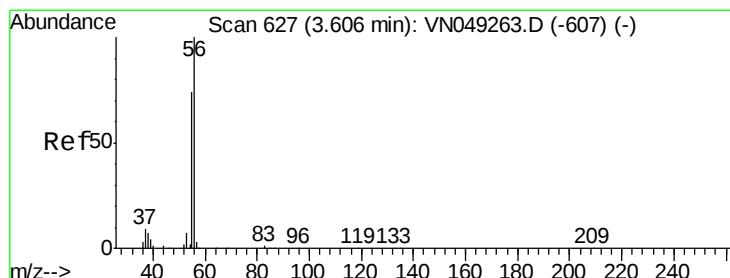
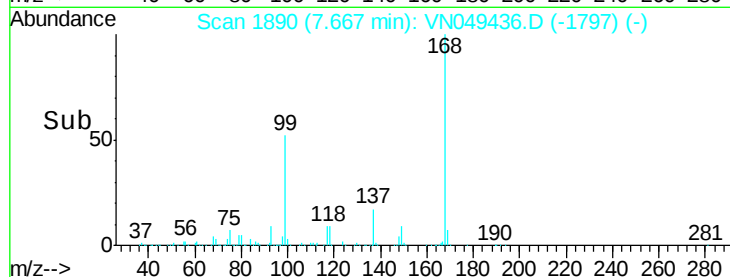
600000

400000

200000

0

Time--> 7.50 7.60 7.70 7.80



#13

Acrolein

Concen: 0.70 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN049436.D

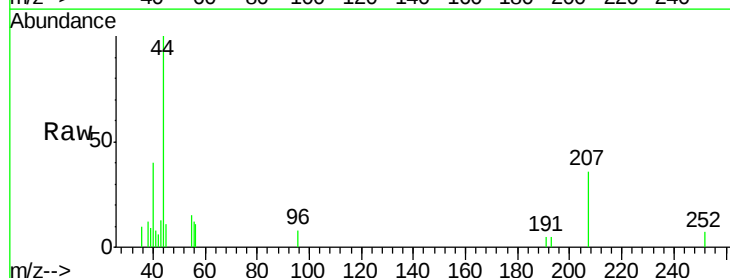
Acq: 20 Jun 2018 14:45

Tgt Ion: 56 Resp: 970

Ion Ratio Lower Upper

56 100

55 110.1 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VN049436.D (-534) (-)

Ion 55.00 (54.70 to 55.70): VN049436.D (-534) (-)

3.61

800

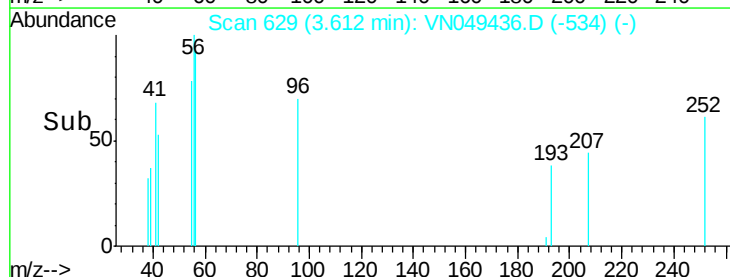
600

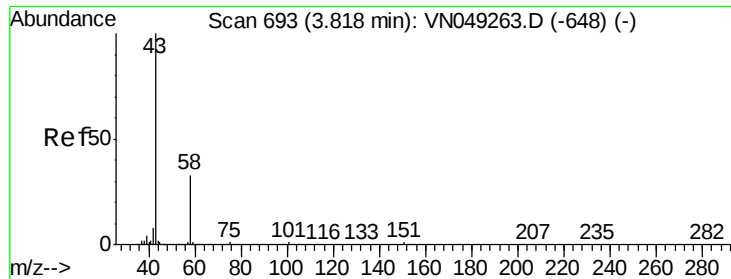
400

200

0

Time--> 3.60 3.62 3.64 3.66





#16

Acetone

Concen: 0.97 ug/l

RT: 3.83 min Scan# 698

Delta R.T. 0.02 min

Lab File: VN049436.D

Acq: 20 Jun 2018 14:45

Instrument :

MSVOA_N

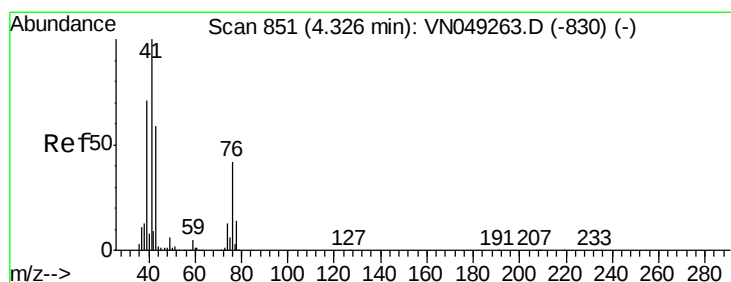
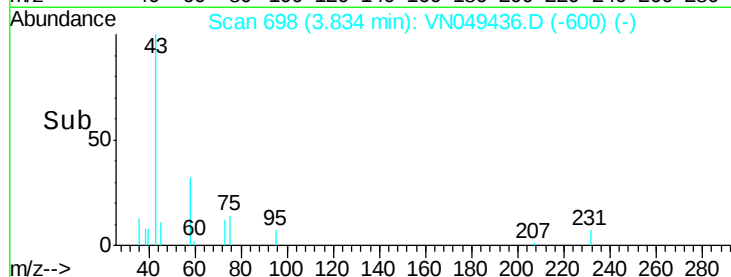
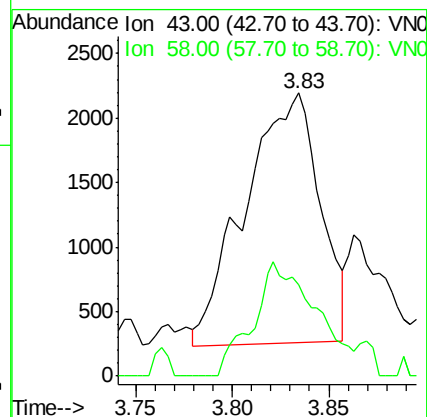
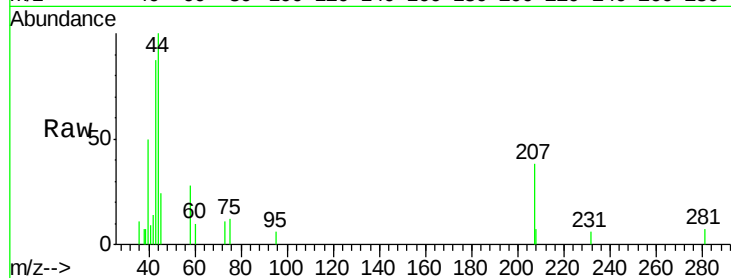
ClientSampleId :

Tot Ion: 43 Resp: 5243

Ion Ratio Lower Upper

43 100

58 38.9 22.4 33.6#



#18

Methyl Acetate

Concen: 1.05 ug/l

RT: 4.34 min Scan# 855

Delta R.T. 0.01 min

Lab File: VN049436.D

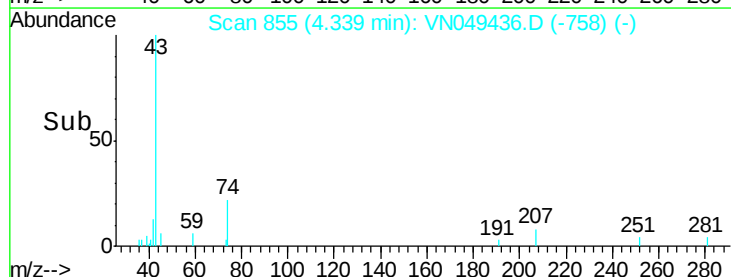
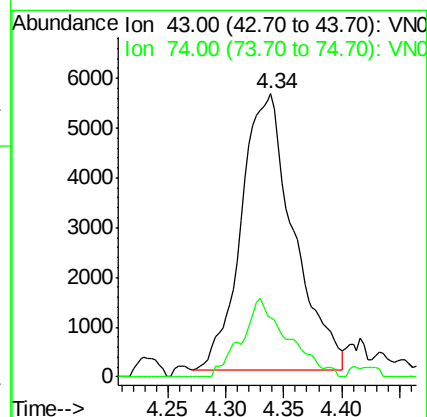
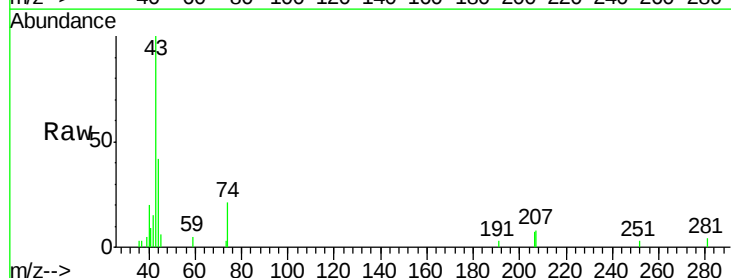
Acq: 20 Jun 2018 14:45

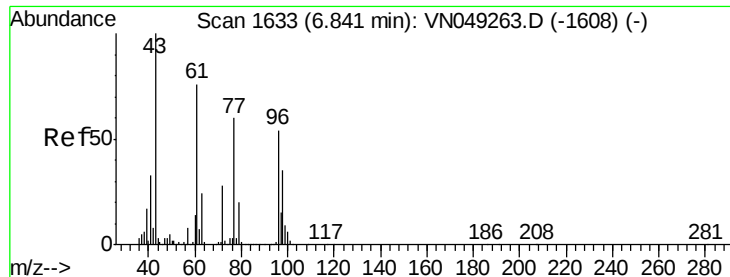
Tgt Ion: 43 Resp: 17333

Ion Ratio Lower Upper

43 100

74 25.2 17.4 26.0





#25

2-Butanone

Concen: 0.27 ug/l

RT: 6.85 min Scan# 1635

Delta R.T. 0.01 min

Lab File: VN049436.D

Acq: 20 Jun 2018 14:45

Instrument :

MSVOA_N

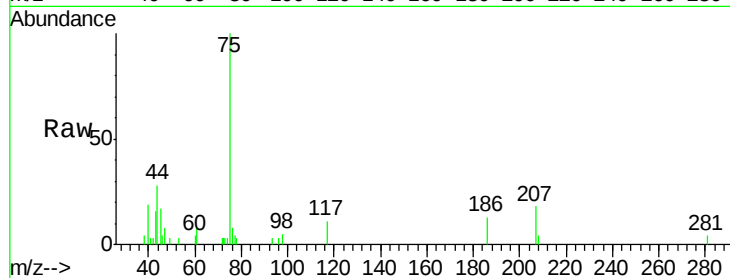
ClientSampled :

Tot Ion: 43 Resp: 1986

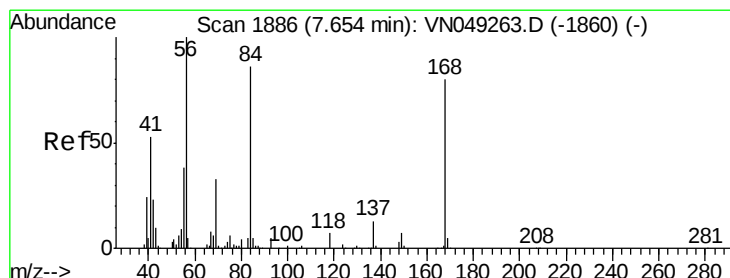
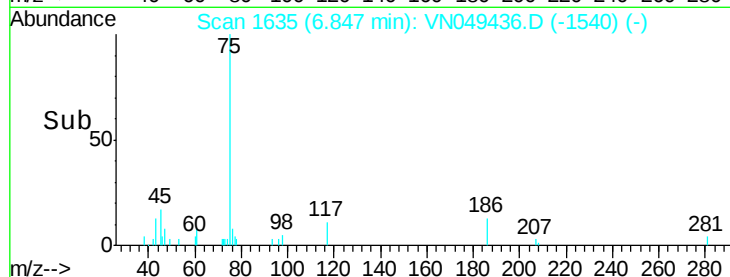
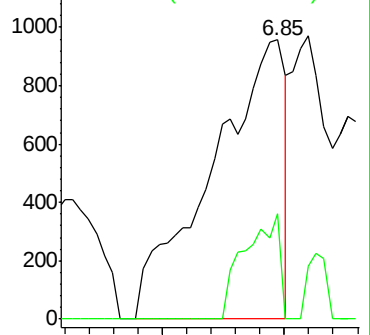
Ion Ratio Lower Upper

43 100

72 37.8 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VN049436.D (-1540) (-)



#31

Cyclohexane

Concen: 0.79 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. 0.01 min

Lab File: VN049436.D

Acq: 20 Jun 2018 14:45

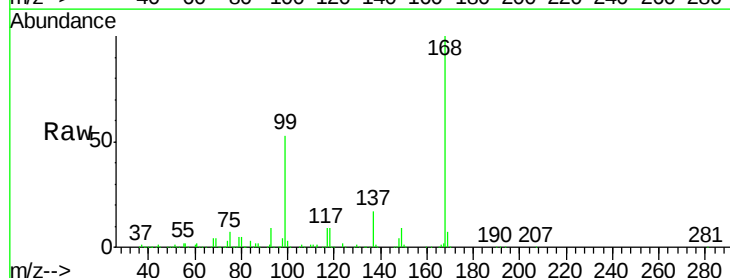
Tgt Ion: 56 Resp: 31983

Ion Ratio Lower Upper

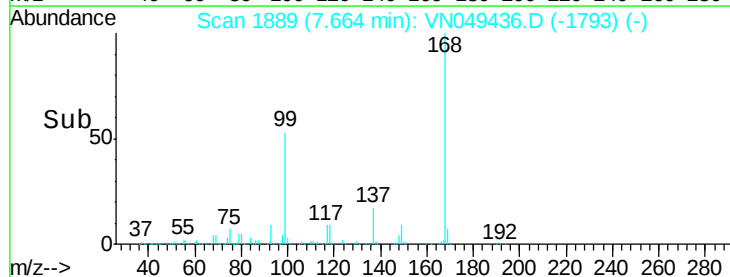
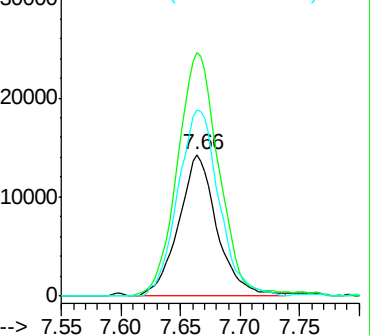
56 100

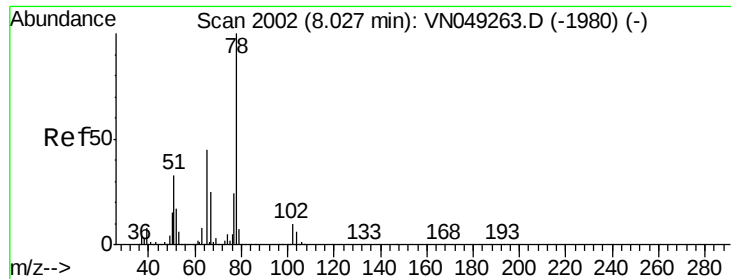
69 170.9 25.0 37.4#

84 131.8 64.6 96.8#



Abundance Ion 56.00 (55.70 to 56.70): VN049436.D (-1793) (-)

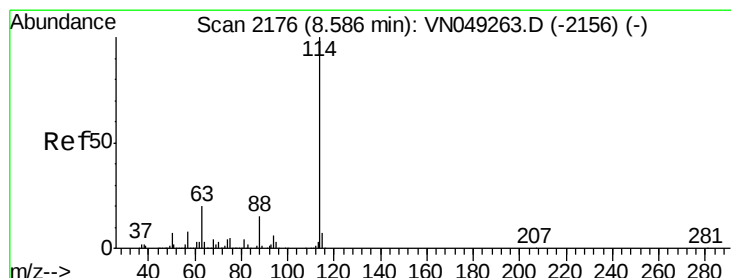
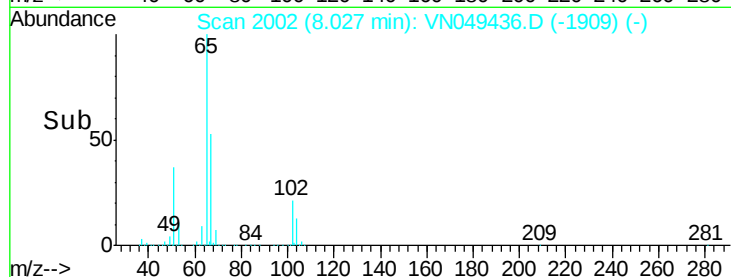
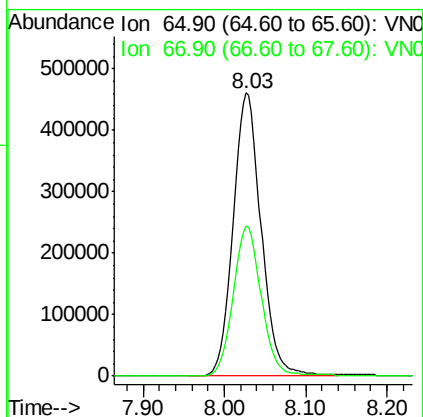
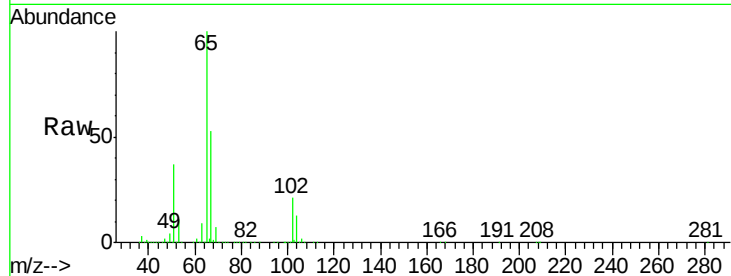




#33
 1,2-Dichloroethane-d4
 Concen: 49.33 ug/l
 RT: 8.03 min Scan# 2002
 Delta R.T. 0.00 min
 Lab File: VN049436.D
 Acq: 20 Jun 2018 14:45

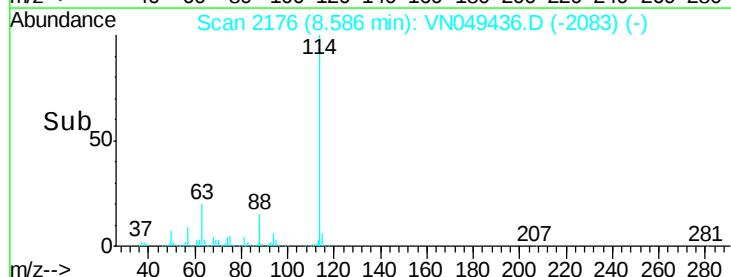
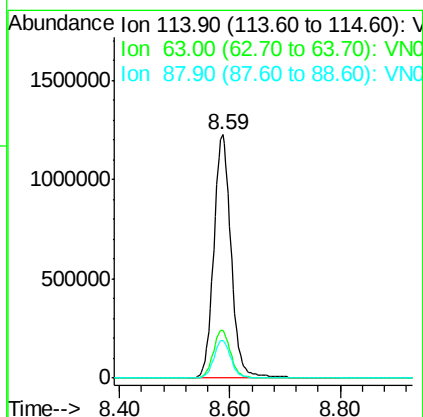
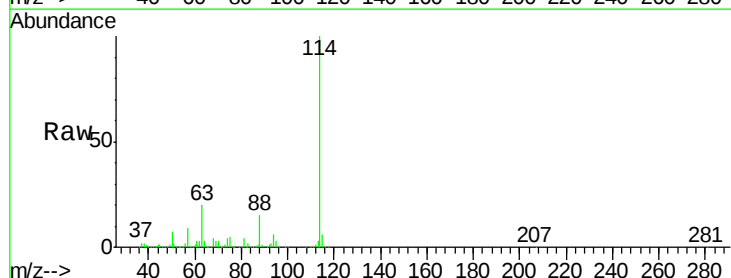
Instrument :
 MSVOA_N
 ClientSampleId :

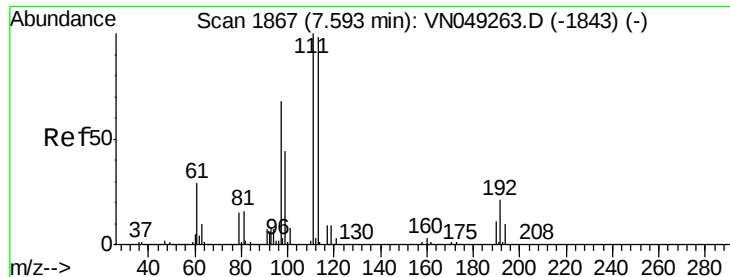
Tot Ion: 65 Resp: 1103531
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN049436.D
 Acq: 20 Jun 2018 14:45

Tgt Ion: 114 Resp: 2658116
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 44.4
 88 15.5 0.0 31.4





#35

Dibromofluoromethane

Concen: 45.71 ug/l

RT: 7.59 min Scan# 1866

Delta R.T. -0.00 min

Lab File: VN049436.D

Acq: 20 Jun 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

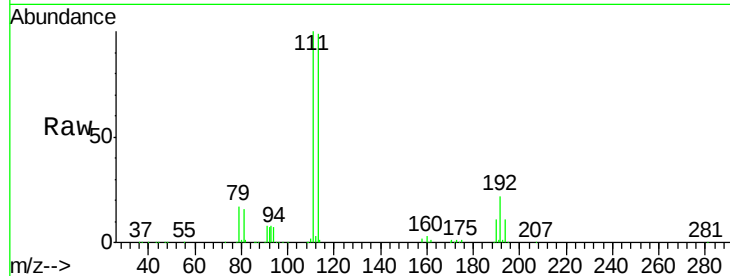
Tot Ion:113 Resp: 983103

Ion Ratio Lower Upper

113 100

111 102.4 82.4 123.6

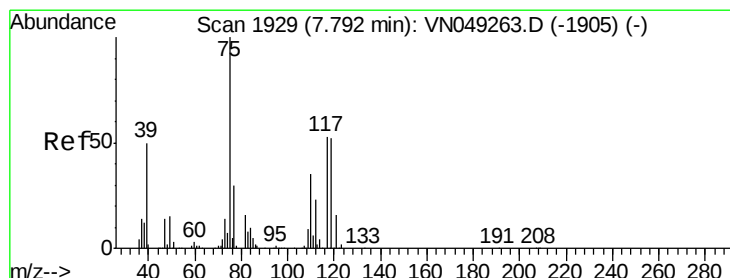
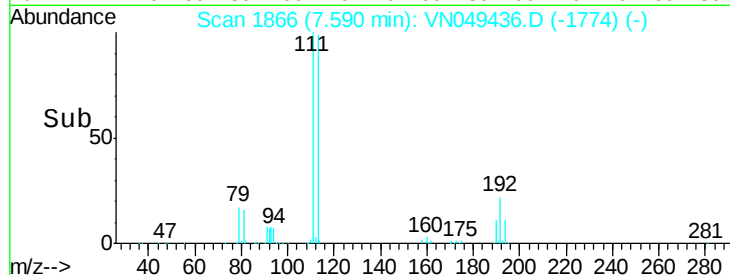
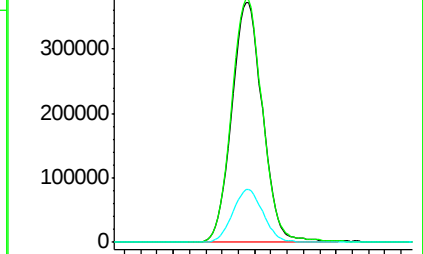
192 21.8 15.0 22.6



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 3.87 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN049436.D

Acq: 20 Jun 2018 14:45

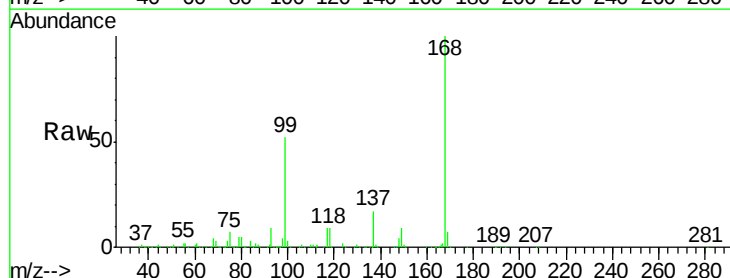
Tgt Ion: 75 Resp: 117994

Ion Ratio Lower Upper

75 100

110 8.6 17.0 50.9#

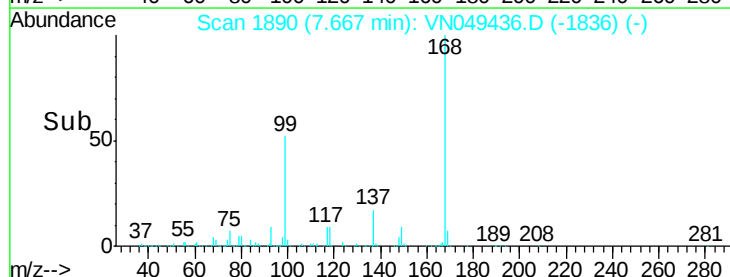
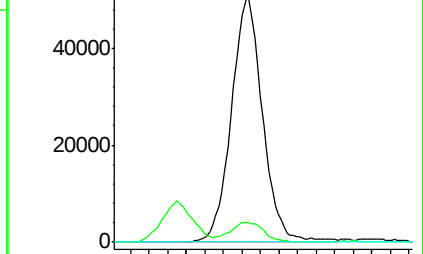
77 0.2 24.4 36.6#

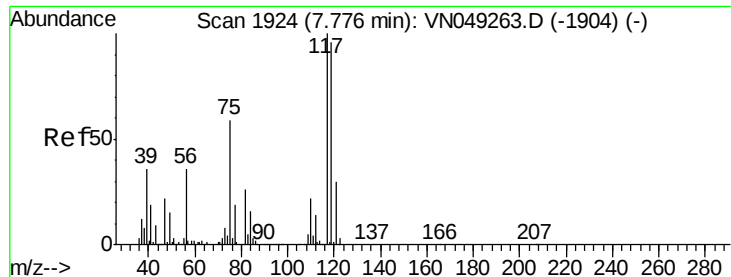


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 4.86 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. -0.11 min

Lab File: VN049436.D

Acq: 20 Jun 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

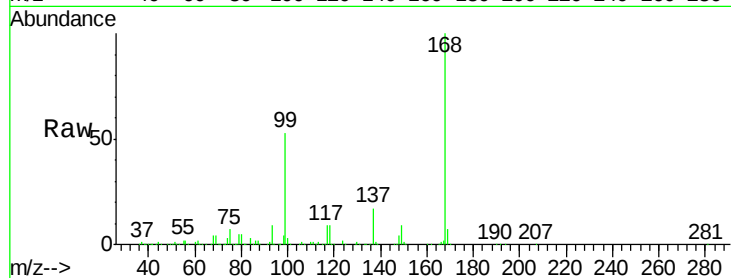
Tot Ion:117 Resp: 153247

Ion Ratio Lower Upper

117 100

119 4.7 75.6 113.4#

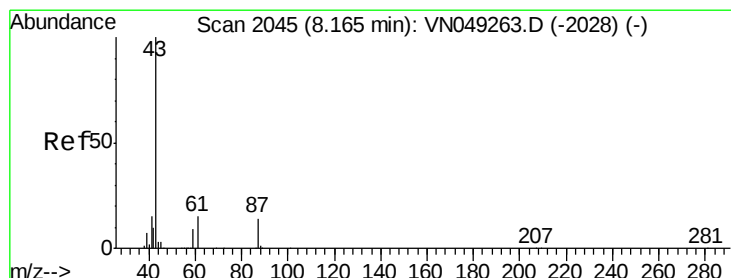
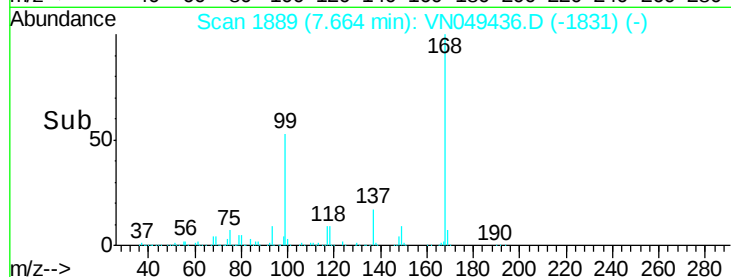
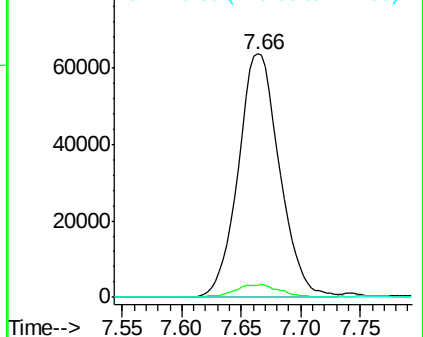
121 0.0 24.7 37.1#



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: 3.48 ug/l

RT: 8.22 min Scan# 2063

Delta R.T. 0.06 min

Lab File: VN049436.D

Acq: 20 Jun 2018 14:45

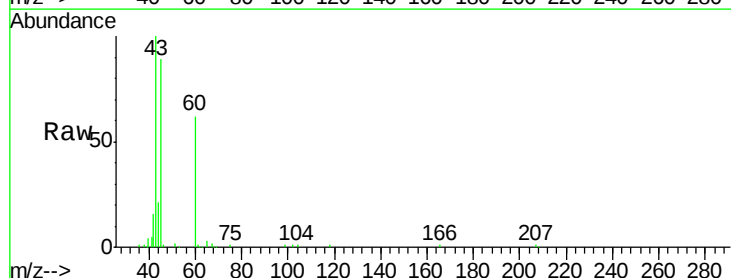
Tgt Ion: 43 Resp: 110199

Ion Ratio Lower Upper

43 100

61 0.0 14.2 21.4#

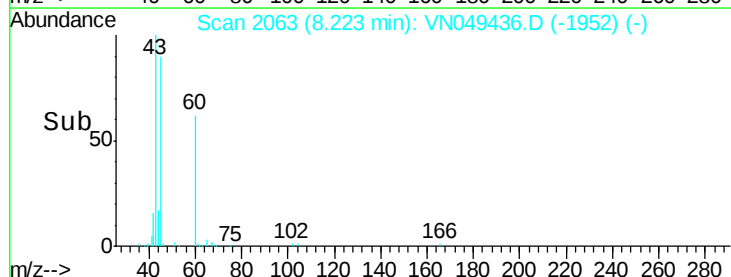
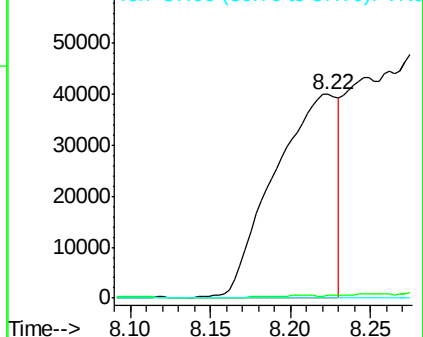
87 0.0 9.4 14.0#

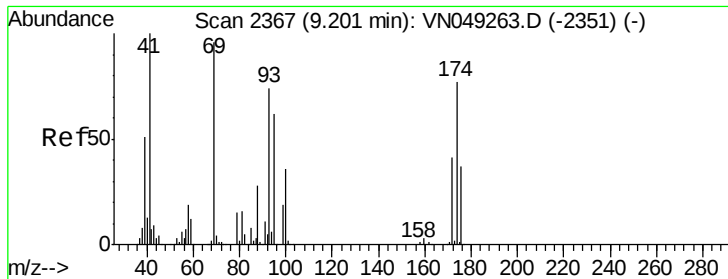


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

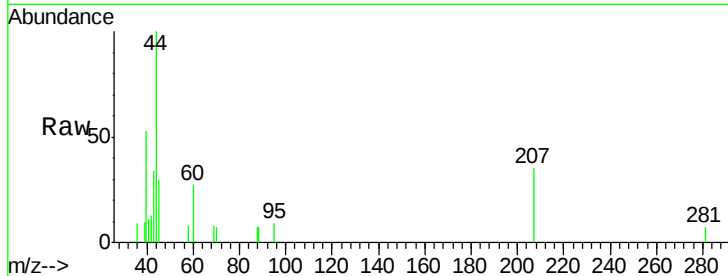




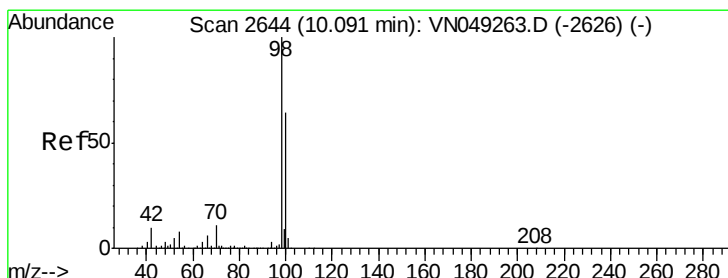
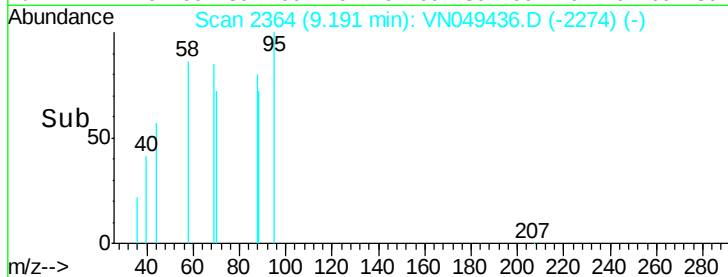
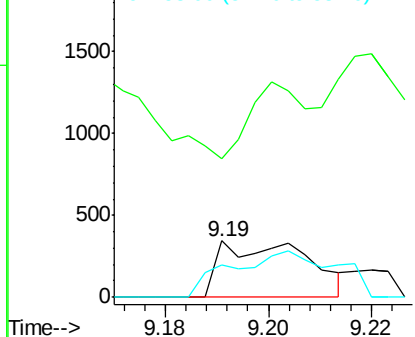
#49
1,4-Dioxane
Concen: 1.94 ug/l
RT: 9.19 min Scan# 2364
Delta R.T. -0.01 min
Lab File: VN049436.D
Acq: 20 Jun 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 88 Resp: 398
Ion Ratio Lower Upper
88 100
43 88.9 30.9 46.3#
58 99.2 58.9 88.3#

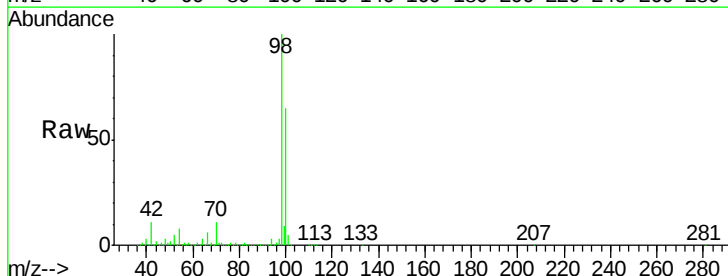


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

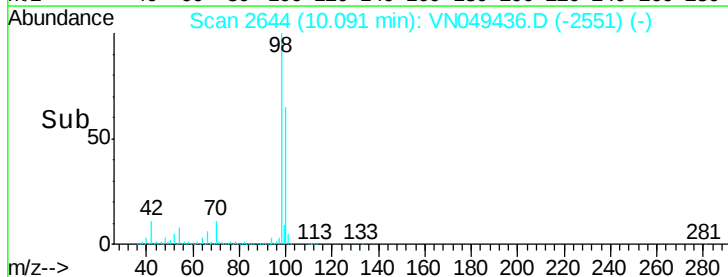
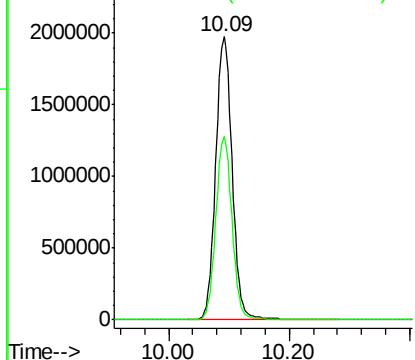


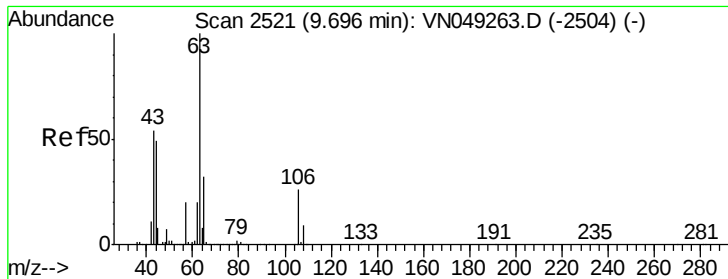
#50
Toluene-d8
Concen: 44.84 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN049436.D
Acq: 20 Jun 2018 14:45

Tgt Ion: 98 Resp: 3671376
Ion Ratio Lower Upper
98 100
100 63.9 49.8 74.8



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





#58

2-Chloroethyl Vinyl ether

Concen: 14.33 ug/l

RT: 9.70 min Scan# 2521

Delta R.T. 0.00 min

Lab File: VN049436.D

Acq: 20 Jun 2018 14:45

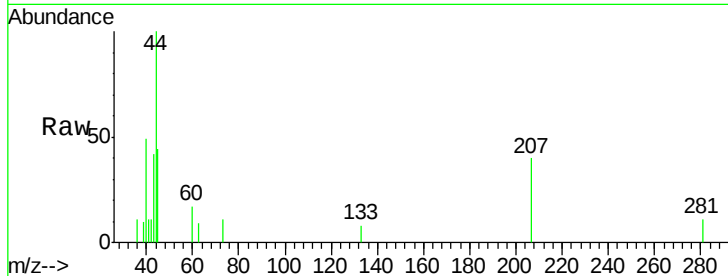
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 63 Resp: 33

Ion Ratio Lower Upper

63 100

106 0.0 19.4 29.2#



Abundance Ion 62.90 (62.60 to 63.60): VN049436.D (-2427) (-)

Ion 105.90 (105.60 to 106.60): VN049436.D (-2427) (-)

9.70

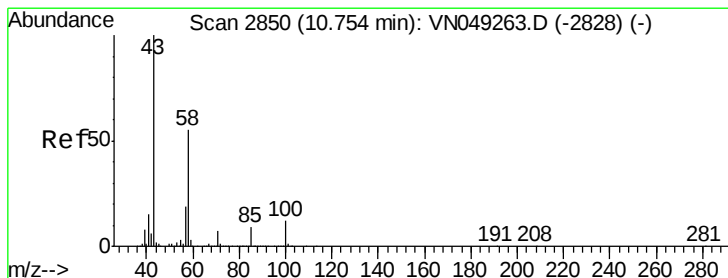
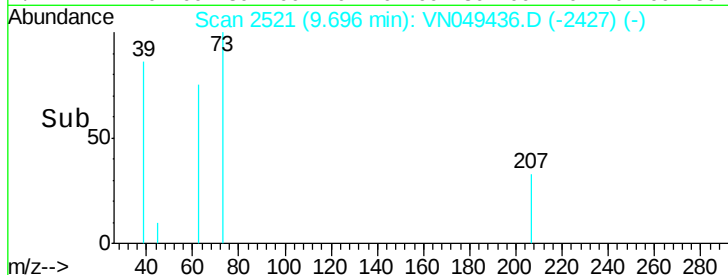
150

100

50

0

Time--> 9.69 9.69 9.70 9.70 9.71



#59

2-Hexanone

Concen: 0.48 ug/l

RT: 10.76 min Scan# 2851

Delta R.T. 0.00 min

Lab File: VN049436.D

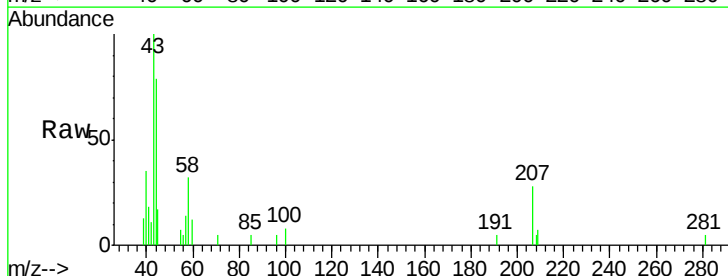
Acq: 20 Jun 2018 14:45

Tgt Ion: 43 Resp: 5175

Ion Ratio Lower Upper

43 100

58 47.9 25.2 75.6



Abundance Ion 43.00 (42.70 to 43.70): VN049436.D (-2757) (-)

Ion 58.00 (57.70 to 58.70): VN049436.D (-2757) (-)

10.76

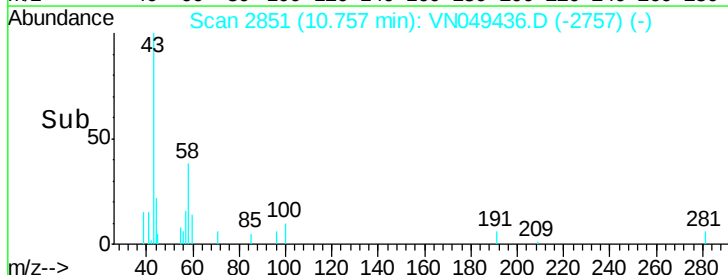
3000

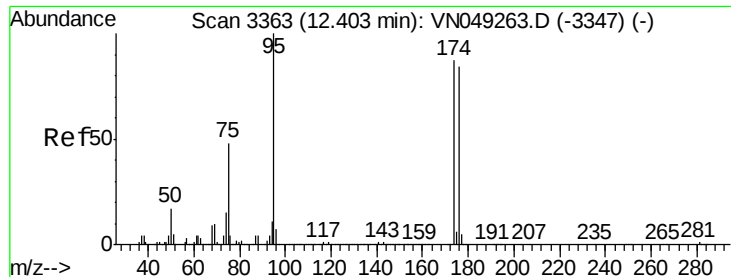
2000

1000

0

Time--> 10.70 10.75 10.80





#62

4-Bromofluorobenzene

Concen: 36.60 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049436.D

Acq: 20 Jun 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

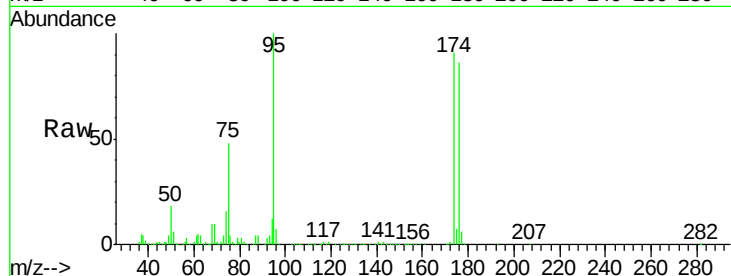
Tot Ion: 95 Resp: 991042

Ion Ratio Lower Upper

95 100

174 90.3 0.0 165.6

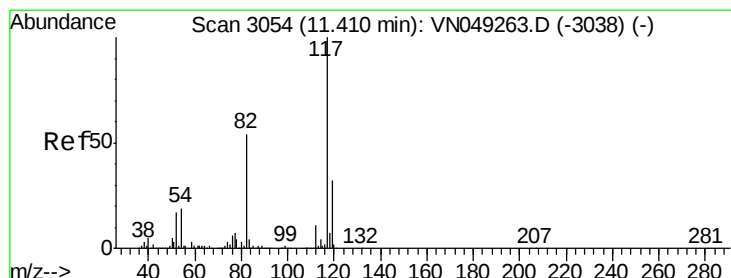
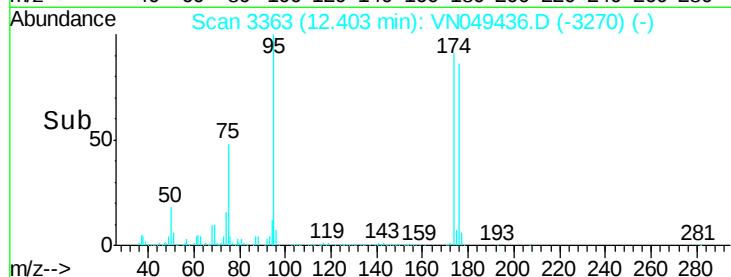
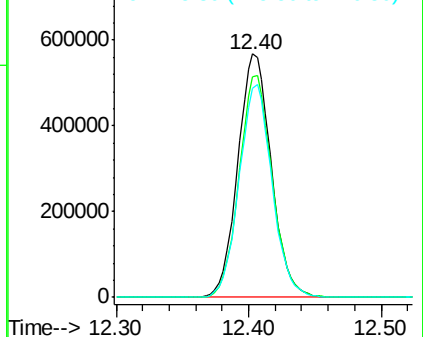
176 86.6 0.0 157.4



Abundance Ion 94.90 (94.60 to 95.60): VN049436.D (-3270) (-)

Ion 173.80 (173.50 to 174.50): VN049436.D (-3270) (-)

Ion 175.80 (175.50 to 176.50): VN049436.D (-3270) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN049436.D

Acq: 20 Jun 2018 14:45

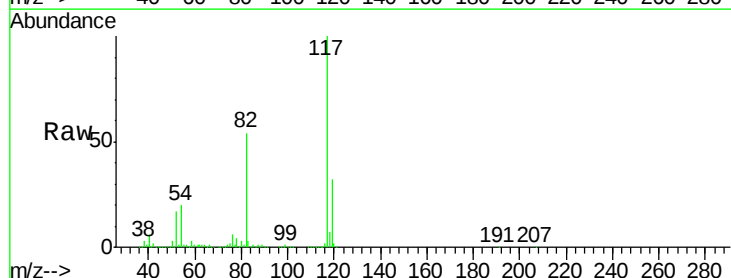
Tgt Ion: 117 Resp: 2231015

Ion Ratio Lower Upper

117 100

82 53.9 45.9 68.9

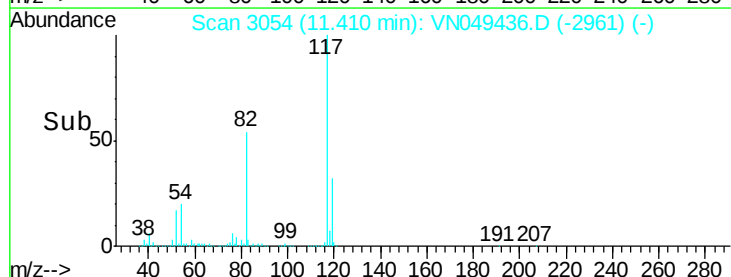
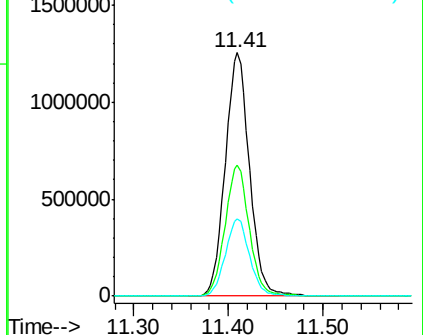
119 32.0 25.5 38.3

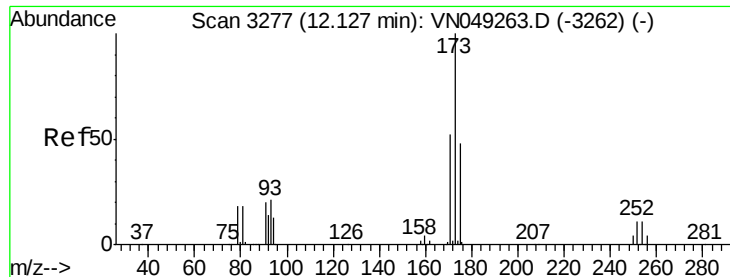


Abundance Ion 116.90 (116.60 to 117.60): VN049436.D (-2961) (-)

Ion 82.00 (81.70 to 82.70): VN049436.D (-2961) (-)

Ion 118.90 (118.60 to 119.60): VN049436.D (-2961) (-)





#71

Bromoform

Concen: 0.24 ug/l

RT: 12.40 min Scan# 3362

Delta R.T. 0.27 min

Lab File: VN049436.D

Acq: 20 Jun 2018 14:45

Instrument :

MSVOA_N

ClientSampled :

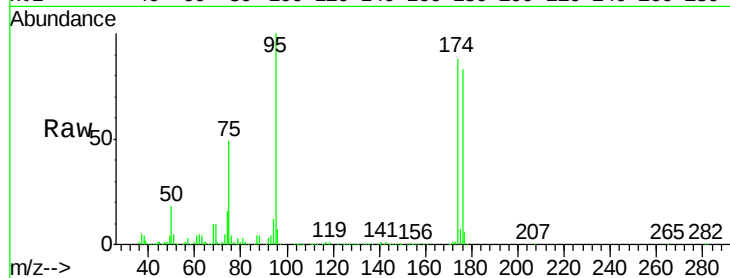
Tot Ion:173 Resp: 3304

Ion Ratio Lower Upper

173 100

175 0.0 24.5 73.5#

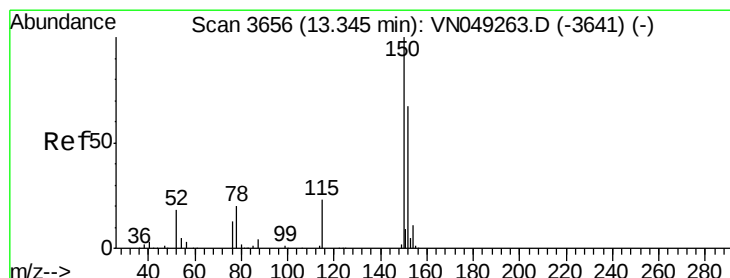
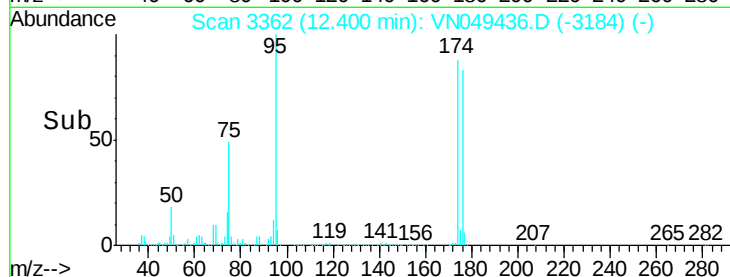
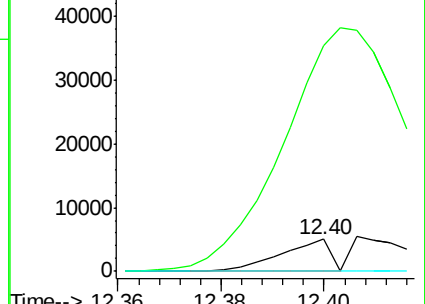
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN049436.D

Acq: 20 Jun 2018 14:45

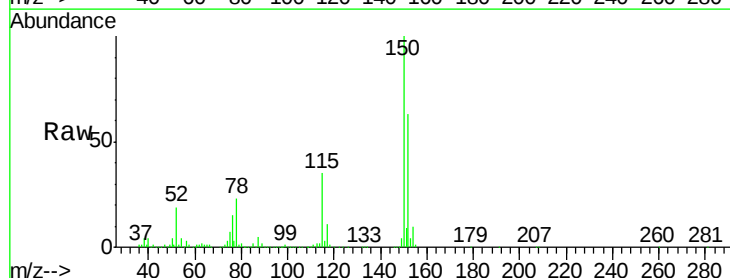
Tgt Ion:152 Resp: 736784

Ion Ratio Lower Upper

152 100

115 56.8 28.7 86.1

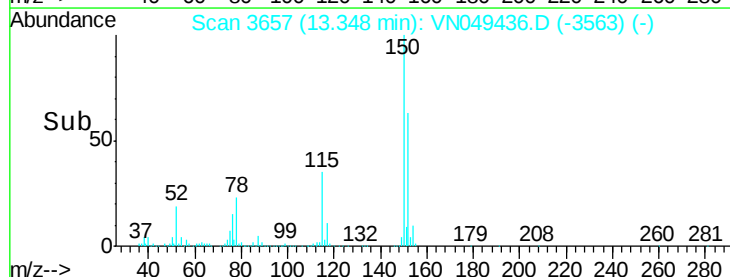
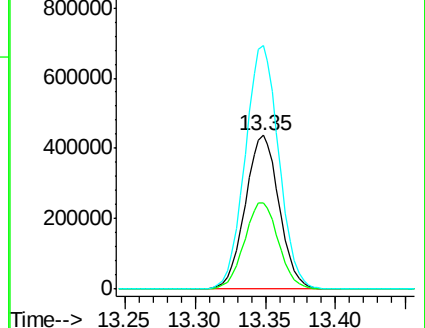
150 157.3 0.0 351.0

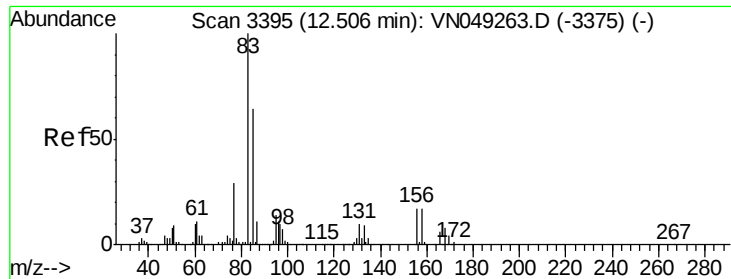


Abundance Ion 151.90 (151.60 to 152.60): V

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: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN049436.D

Acq: 20 Jun 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

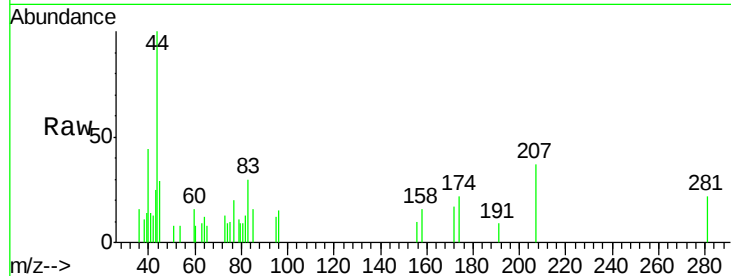
Tot Ion: 83 Resp: 810

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

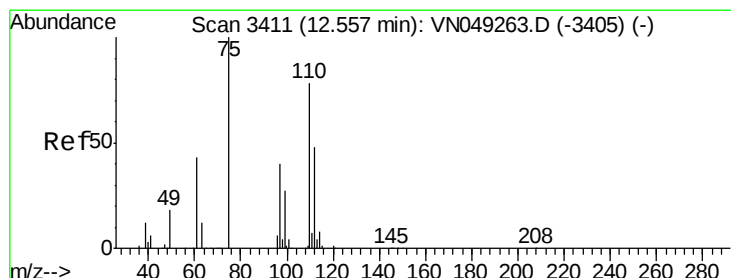
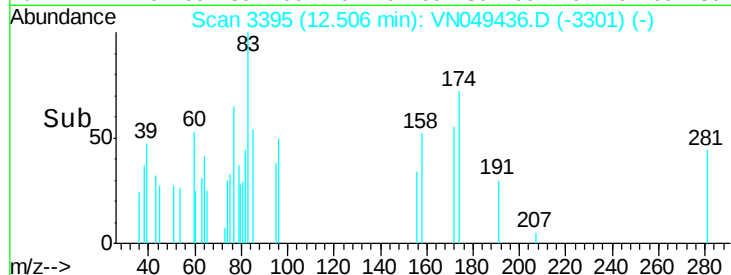
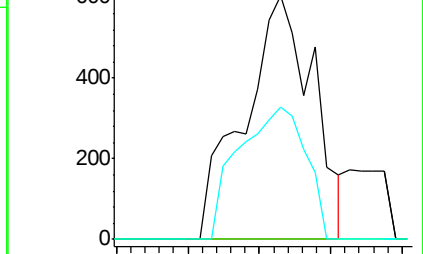
85 52.8 32.0 96.0



Abundance Ion 82.90 (82.60 to 83.60): VNC

Ion 130.80 (130.50 to 131.50): VNC

Ion 84.90 (84.60 to 85.60): VNC



#76

1,2,3-Trichloropropane

Concen: 38.23 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049436.D

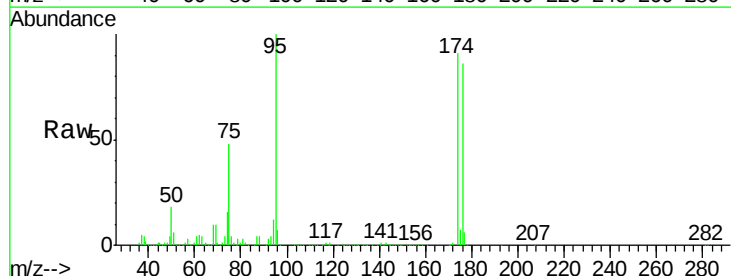
Acq: 20 Jun 2018 14:45

Tgt Ion: 75 Resp: 480633

Ion Ratio Lower Upper

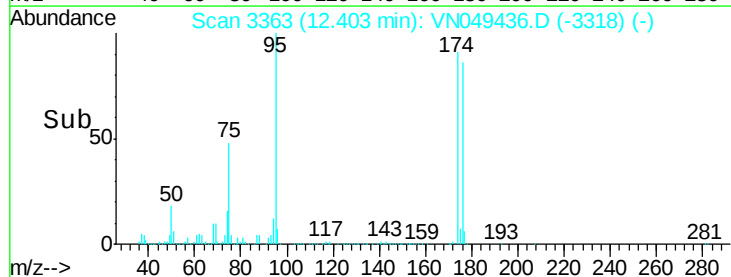
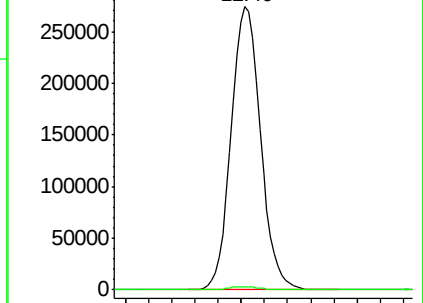
75 100

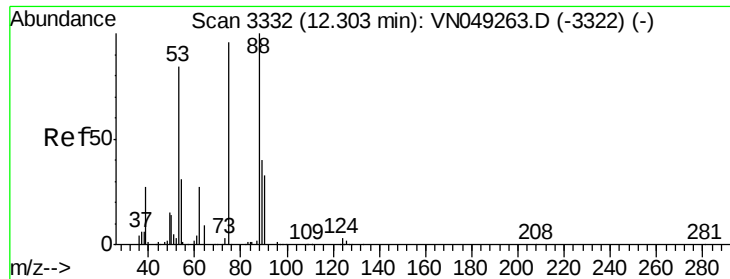
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC





#81

trans-1,4-Dichloro-2-butene

Concen: 120.83 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049436.D

Acq: 20 Jun 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

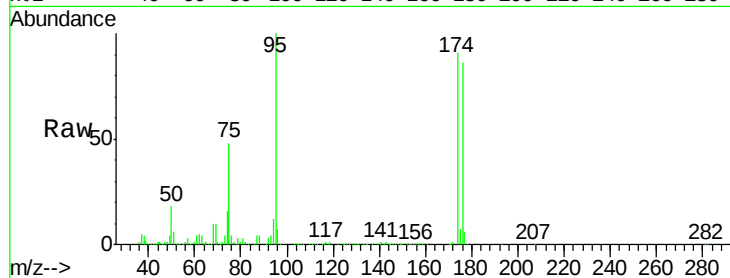
Tot Ion: 75 Resp: 480633

Ion Ratio Lower Upper

75 100

53 0.2 82.7 124.1#

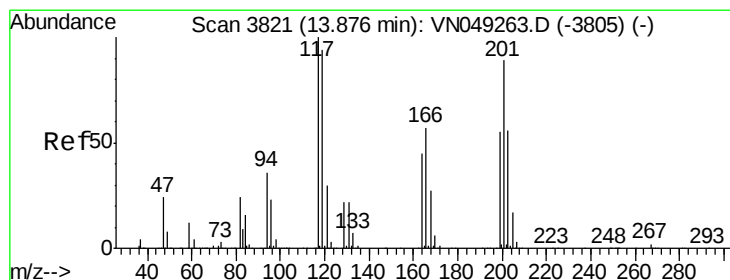
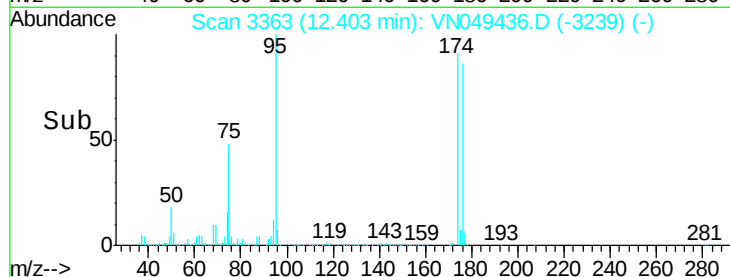
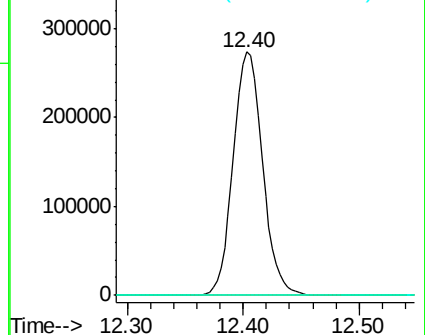
89 0.0 36.5 54.7#



Abundance Ion 74.90 (74.60 to 75.60): VN049436.D (-3363) (-)

Ion 53.00 (52.70 to 53.70): VN049436.D (-3363) (-)

Ion 88.90 (88.60 to 89.60): VN049436.D (-3363) (-)



#90

Hexachloroethane

Concen: Below Cal

RT: 13.88 min Scan# 3823

Delta R.T. 0.01 min

Lab File: VN049436.D

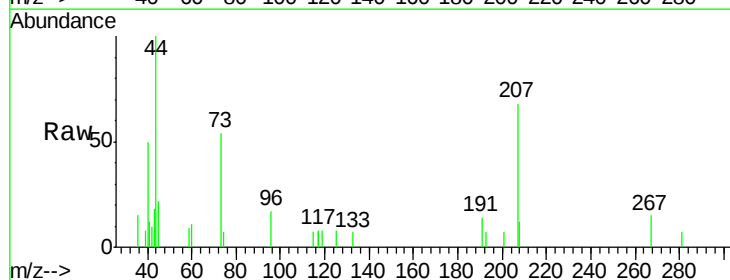
Acq: 20 Jun 2018 14:45

Tgt Ion: 117 Resp: 387

Ion Ratio Lower Upper

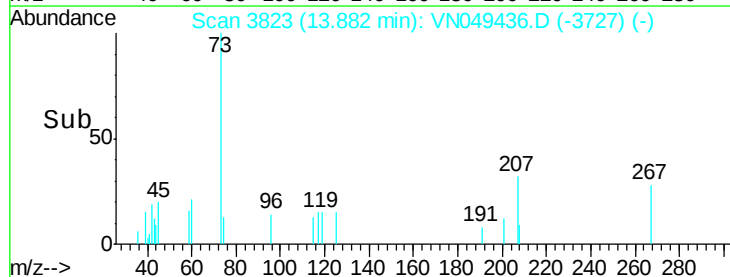
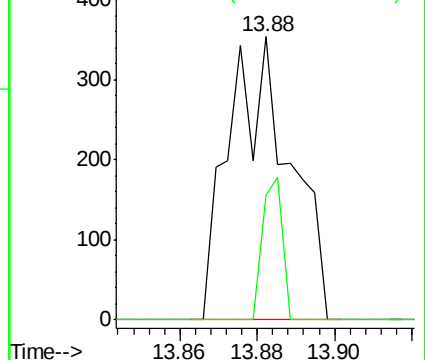
117 100

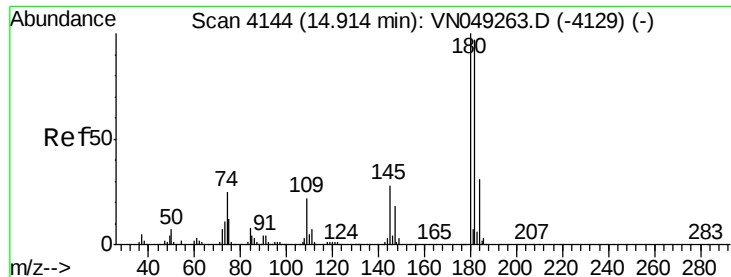
201 16.5 40.1 120.2#



Abundance Ion 116.80 (116.50 to 117.50): VN049436.D (-3823) (-)

Ion 200.70 (200.40 to 201.40): VN049436.D (-3823) (-)

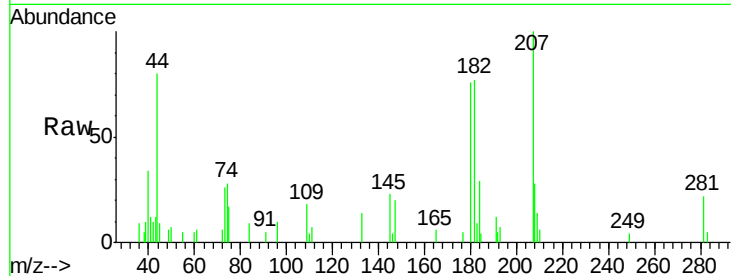




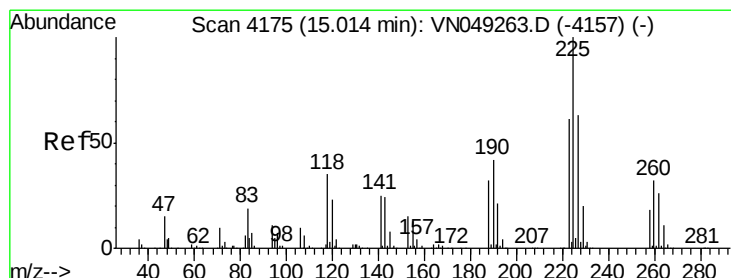
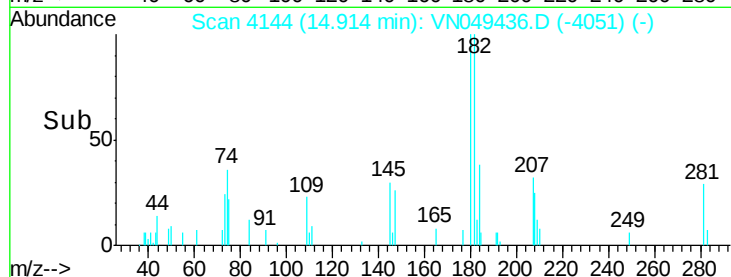
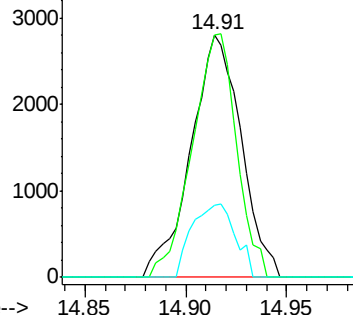
#93
 1,2,4-Trichlorobenzene
 Concen: 5.09 ua/l
 RT: 14.91 min Scan# 4144
 Delta R.T. 0.00 min
 Lab File: VN049436.D
 Acq: 20 Jun 2018 14:45

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 4881
 Ion Ratio Lower Upper
 180 100
 182 88.4 46.9 140.8
 145 26.2 14.7 44.1

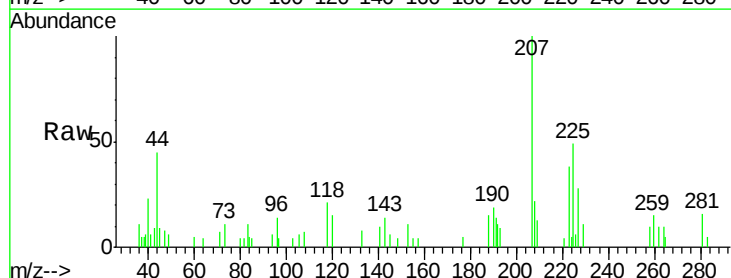


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

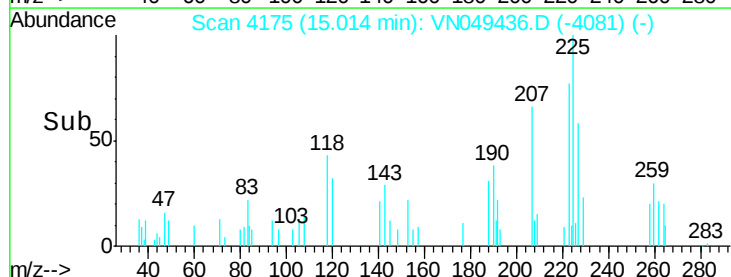
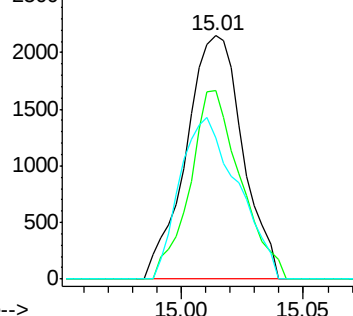


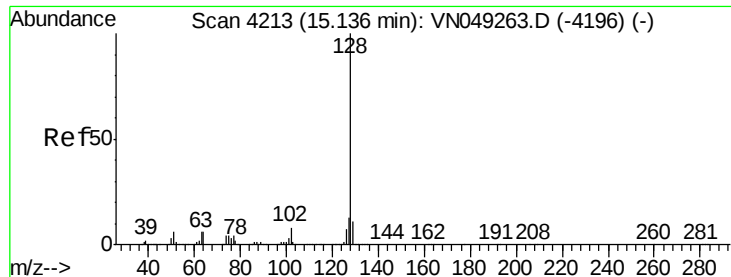
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4175
 Delta R.T. 0.00 min
 Lab File: VN049436.D
 Acq: 20 Jun 2018 14:45

Tgt Ion:225 Resp: 3457
 Ion Ratio Lower Upper
 225 100
 223 69.3 32.1 96.3
 227 68.3 31.8 95.3



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 2.59 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN049436.D

Acq: 20 Jun 2018 14:45

Instrument :

MSVOA_N

ClientSampled :

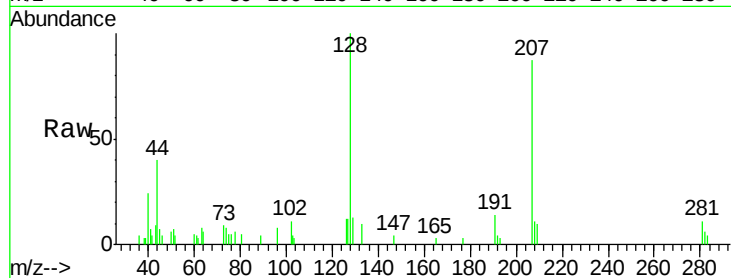
Tot Ion:128 Resp: 10355

Ion Ratio Lower Upper

128 100

127 12.7 10.6 16.0

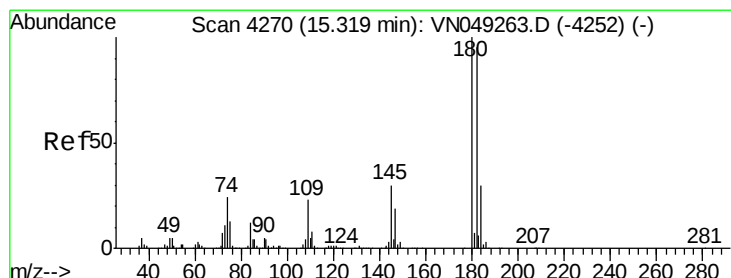
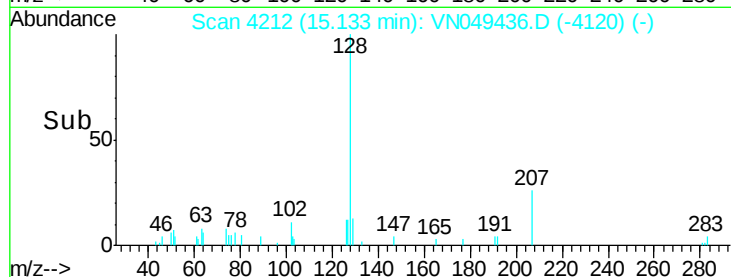
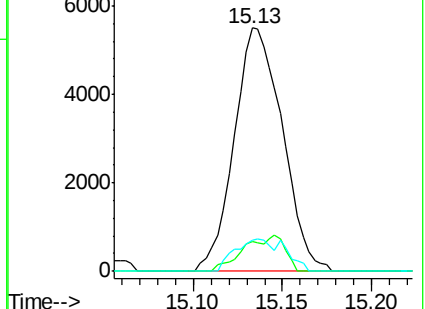
129 10.1 8.5 12.7



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



#96

1,2,3-Trichlorobenzene

Concen: 3.79 ug/l

RT: 15.32 min Scan# 4270

Delta R.T. 0.00 min

Lab File: VN049436.D

Acq: 20 Jun 2018 14:45

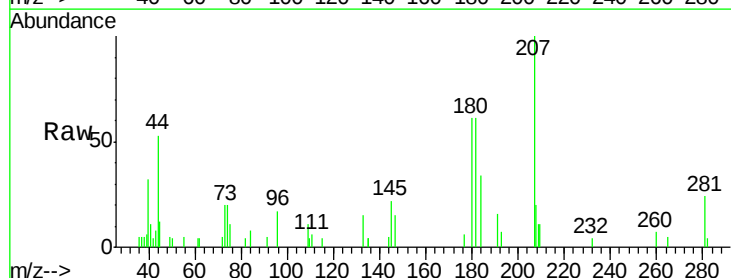
Tgt Ion:180 Resp: 4476

Ion Ratio Lower Upper

180 100

182 102.9 47.3 141.8

145 33.5 15.6 46.7



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

