

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061618\
 Data File : VN049285.D
 Acq On : 16 Jun 2018 3:26
 Operator : MD\SY
 Sample : VN0616WBL02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 16 05:04:33 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	1493484	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2394310	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1976942	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	547332	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	990502	50.00	ug/l	0.00
Spiked Amount			Recovery	=	100.00%	
35) Dibromofluoromethane	7.59	113	904582	46.70	ug/l	0.00
Spiked Amount			Recovery	=	93.40%	
50) Toluene-d8	10.09	98	3323308	45.06	ug/l	0.00
Spiked Amount			Recovery	=	90.12%	
62) 4-Bromofluorobenzene	12.40	95	816570	33.48	ug/l	0.00
Spiked Amount			Recovery	=	66.96%	

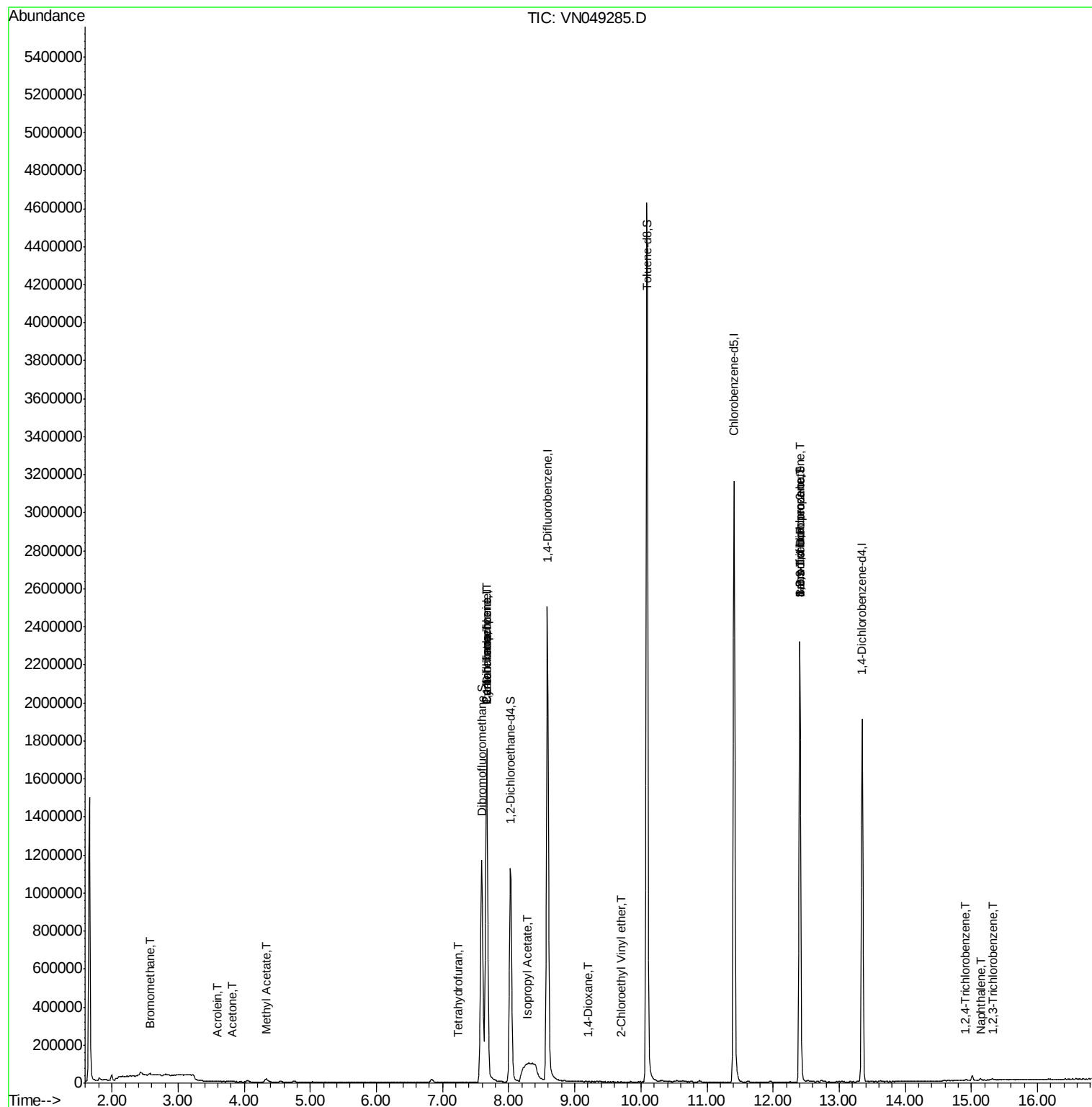
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.58	94	6605	0.53	ug/l	89
13) Acrolein	3.59	56	327	0.27	ug/l #	56
16) Acetone	3.81	43	1463	0.30	ug/l	95
18) Methyl Acetate	4.34	43	30532	2.08	ug/l	92
29) Tetrahydrofuran	7.23	42	1087	0.26	ug/l #	56
31) Cyclohexane	7.67	56	29203	0.82	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	102718	3.74	ug/l #	51
38) Carbon Tetrachloride	7.66	117	136038	4.79	ug/l #	18
43) Isopropyl Acetate	8.27	43	135139	4.74	ug/l #	64
49) 1,4-Dioxane	9.20	88	191	1.03	ug/l #	59
58) 2-Chloroethyl Vinyl ether	9.70	63	112	14.34	ug/l #	51
71) Bromoform	12.40	173	6533	0.53	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.51	83	547	Below Cal	#	95
76) 1,2,3-Trichloropropane	12.40	75	402665	43.12	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	402665	136.27	ug/l #	9
90) Hexachloroethane	13.66	117	91	Below Cal	#	9
93) 1,2,4-Trichlorobenzene	14.91	180	2444	4.98	ug/l	95
94) Hexachlorobutadiene	15.01	225	5490	Below Cal		90
95) Naphthalene	15.14	128	4280	2.36	ug/l #	88
96) 1,2,3-Trichlorobenzene	15.32	180	3034	3.77	ug/l	88

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

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049285.D

Acq: 16 Jun 2018 3:26

Instrument :

MSVOA_N

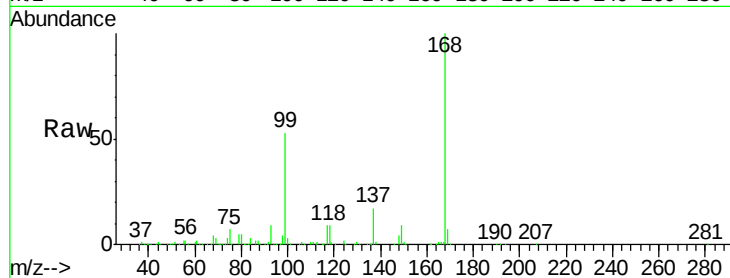
ClientSampleId :

Tot Ion:168 Resp: 1493484

Ion Ratio Lower Upper

168 100

99 52.7 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

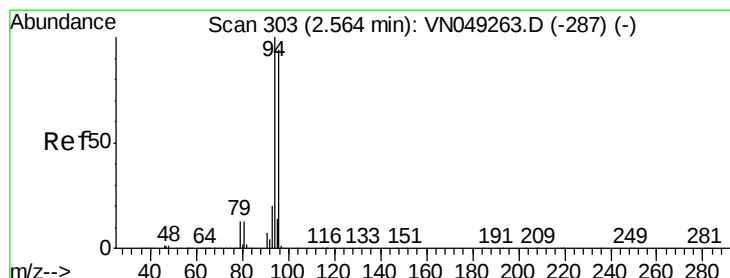
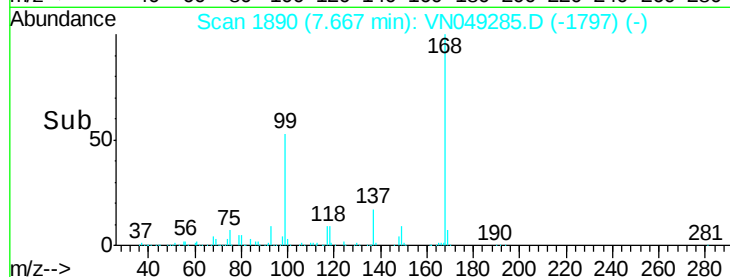
600000

400000

200000

0

Time-->



#5

Bromomethane

Concen: 0.53 ug/l

RT: 2.58 min Scan# 307

Delta R.T. 0.01 min

Lab File: VN049285.D

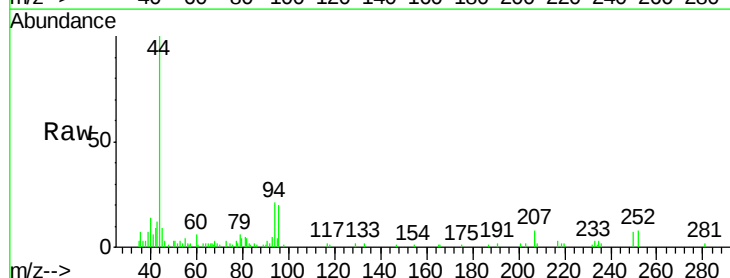
Acq: 16 Jun 2018 3:26

Tgt Ion: 94 Resp: 6605

Ion Ratio Lower Upper

94 100

96 80.2 72.8 109.2



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.58

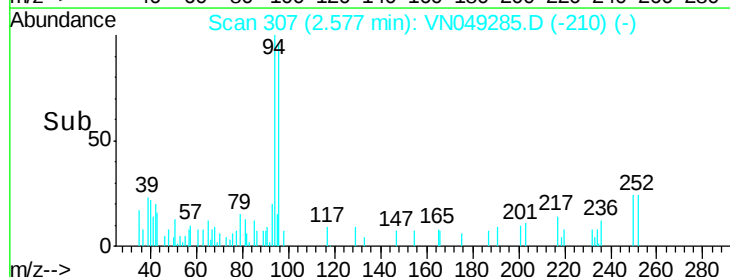
3000

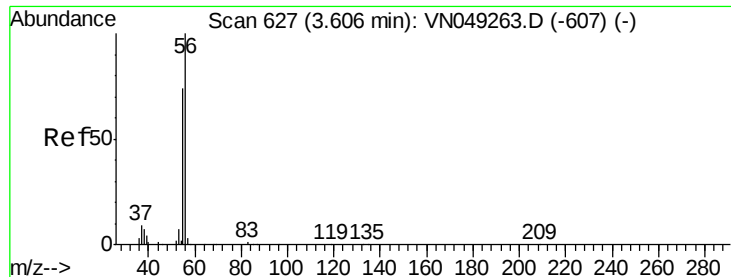
2000

1000

0

Time-->





#13

Acrolein

Concen: 0.27 ug/l

RT: 3.59 min Scan# 623

Delta R.T. -0.01 min

Lab File: VN049285.D

Acq: 16 Jun 2018 3:26

Instrument :

MSVOA_N

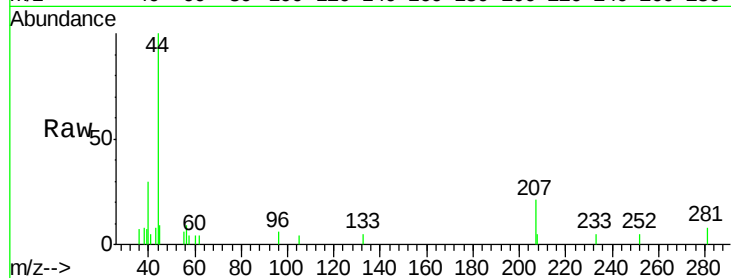
ClientSampled :

Tot Ion: 56 Resp: 327

Ion Ratio Lower Upper

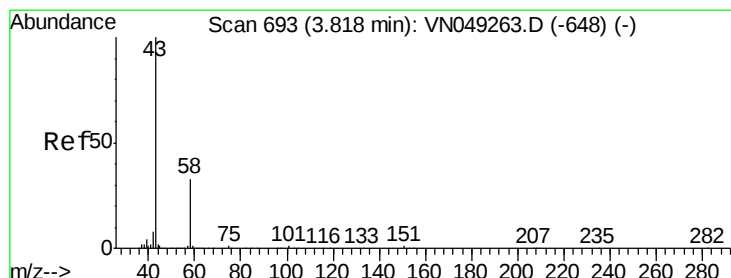
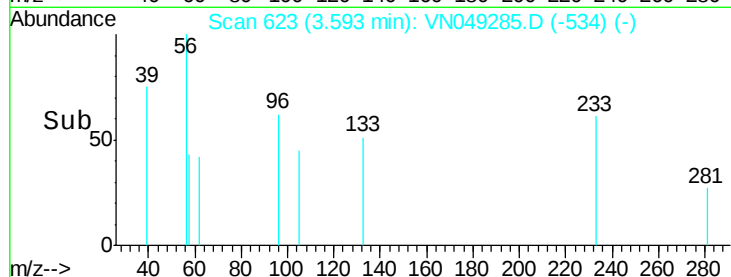
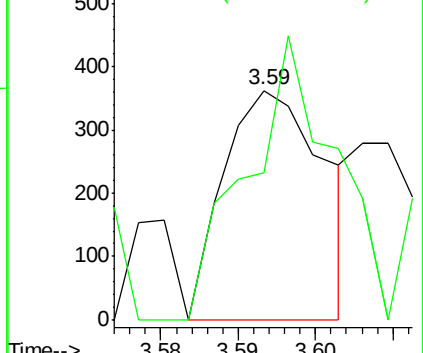
56 100

55 108.0 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 0.30 ug/l

RT: 3.81 min Scan# 691

Delta R.T. -0.01 min

Lab File: VN049285.D

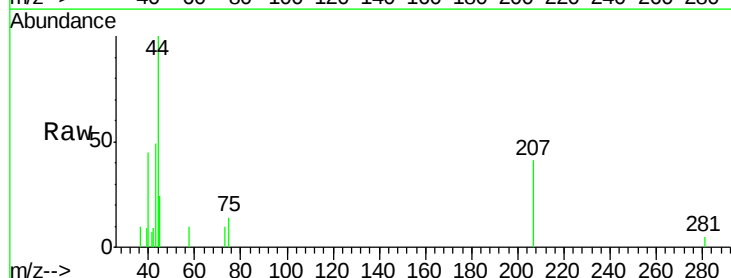
Acq: 16 Jun 2018 3:26

Tgt Ion: 43 Resp: 1463

Ion Ratio Lower Upper

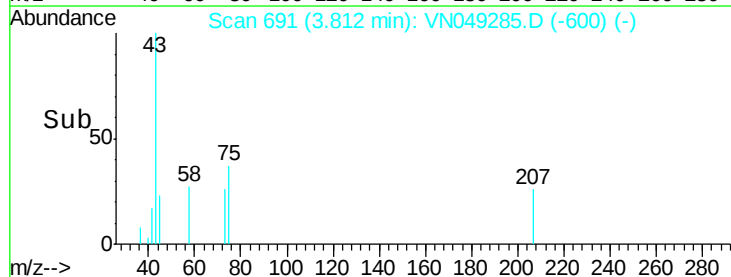
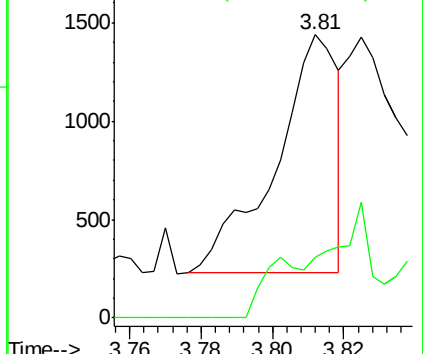
43 100

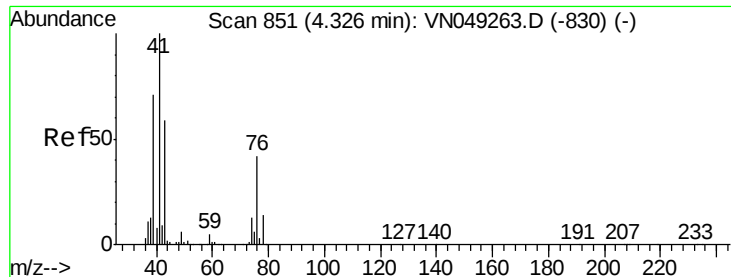
58 25.4 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

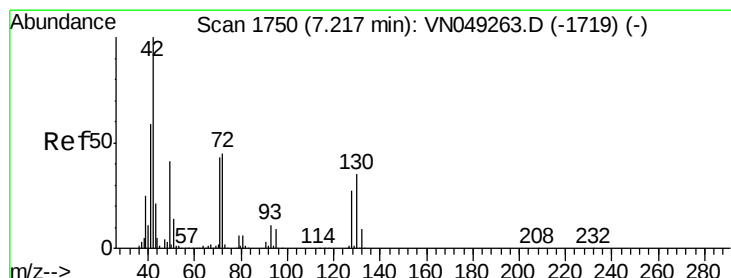
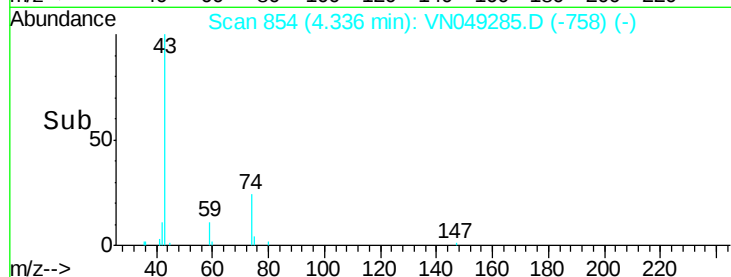
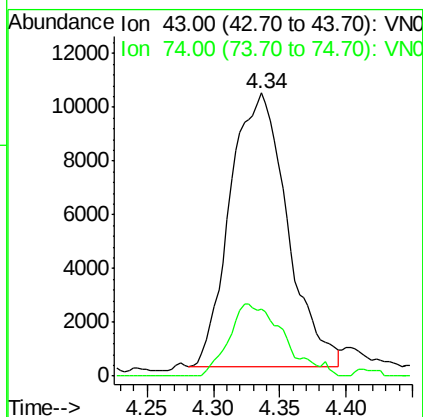
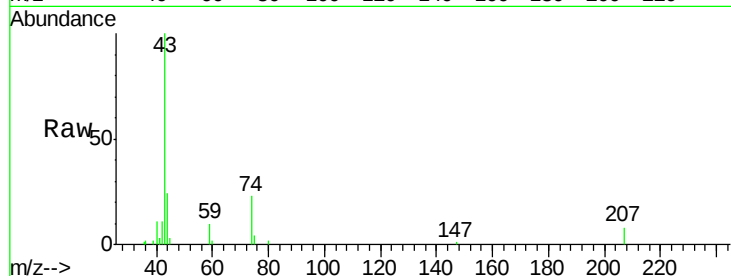




#18
Methvl Acetate
Concen: 2.08 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN049285.D
Acq: 16 Jun 2018 3:26

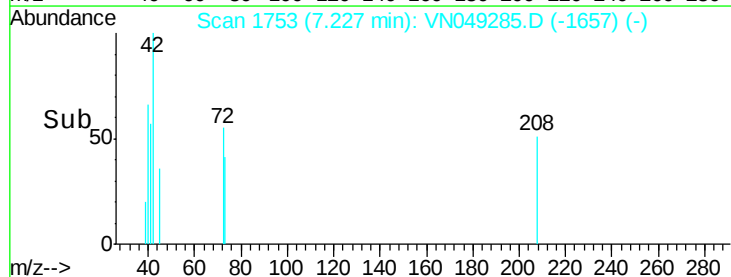
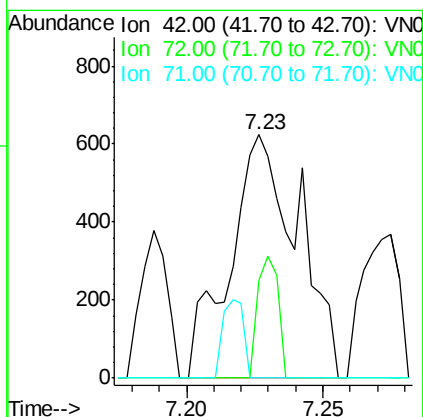
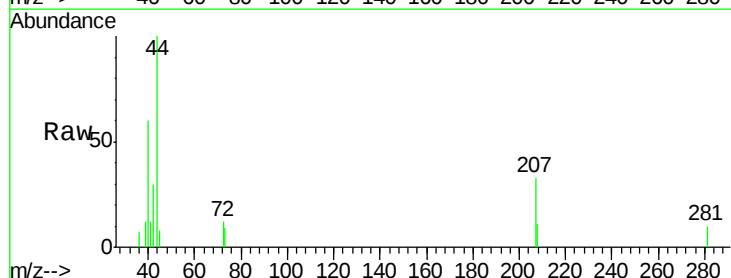
Instrument :
MSVOA_N
ClientSampled :

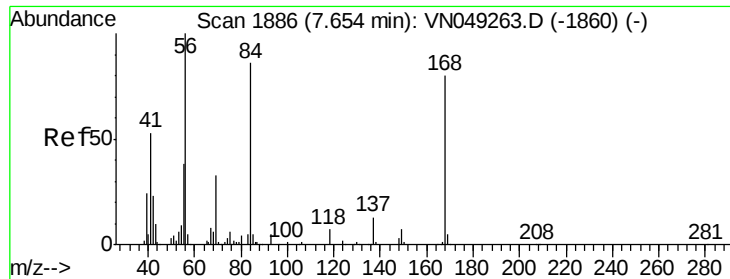
Tot Ion: 43 Resp: 30532
Ion Ratio Lower Upper
43 100
74 25.4 17.4 26.0



#29
Tetrahydrofuran
Concen: 0.26 ug/l
RT: 7.23 min Scan# 1753
Delta R.T. 0.01 min
Lab File: VN049285.D
Acq: 16 Jun 2018 3:26

Tgt Ion: 42 Resp: 1087
Ion Ratio Lower Upper
42 100
72 14.7 32.2 48.4#
71 10.0 30.5 45.7#

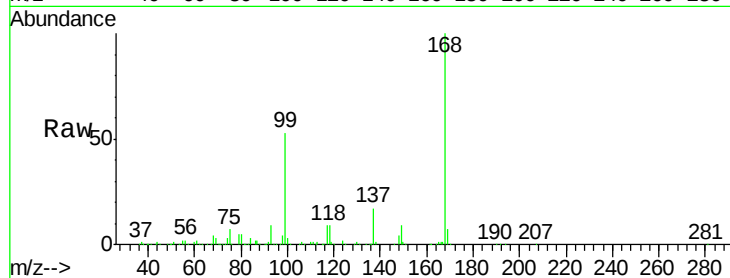




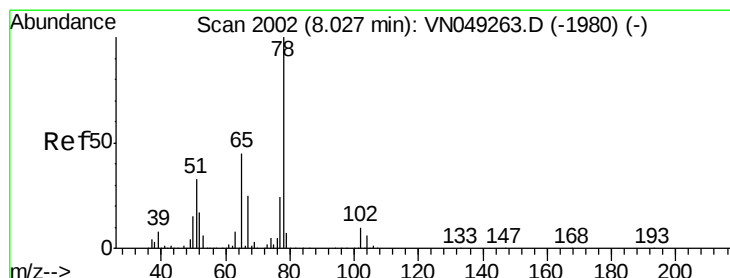
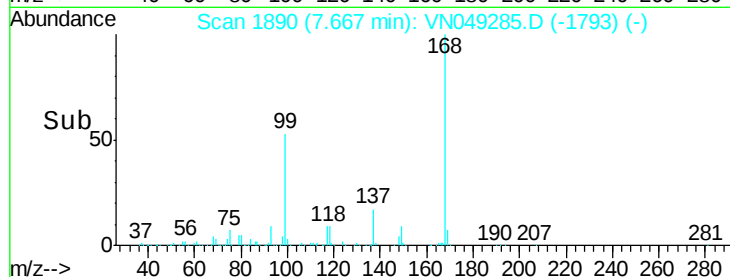
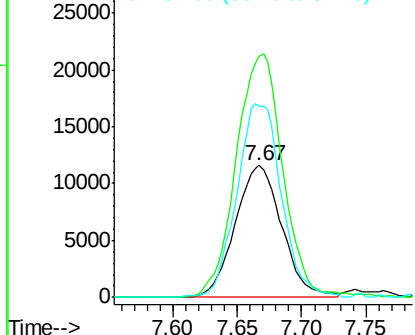
#31
Cyclohexane
Concen: 0.82 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN049285.D
Acq: 16 Jun 2018 3:26

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 29203
Ion Ratio Lower Upper
56 100
69 181.3 25.0 37.4#
84 143.2 64.6 96.8#

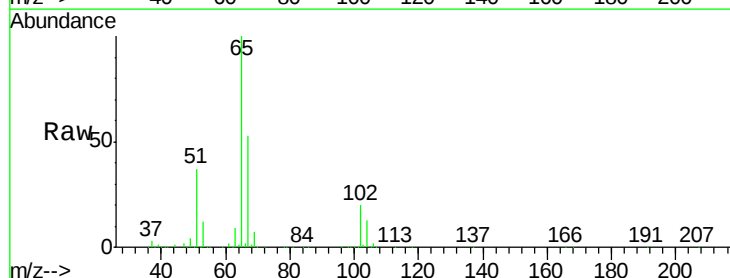


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

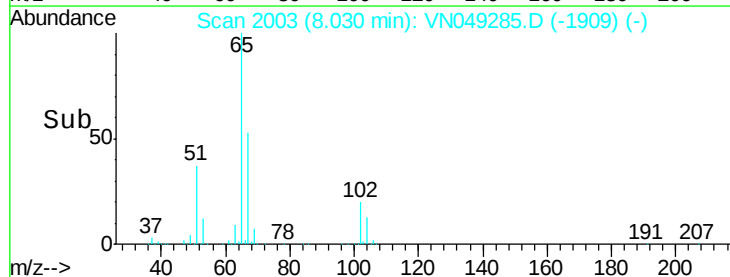
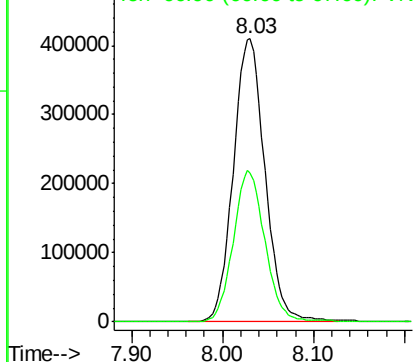


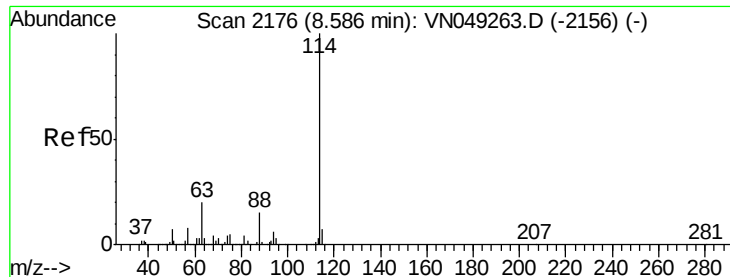
#33
1,2-Dichloroethane-d4
Concen: 50.00 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049285.D
Acq: 16 Jun 2018 3:26

Tgt Ion: 65 Resp: 990502
Ion Ratio Lower Upper
65 100
67 53.1 0.0 103.8



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

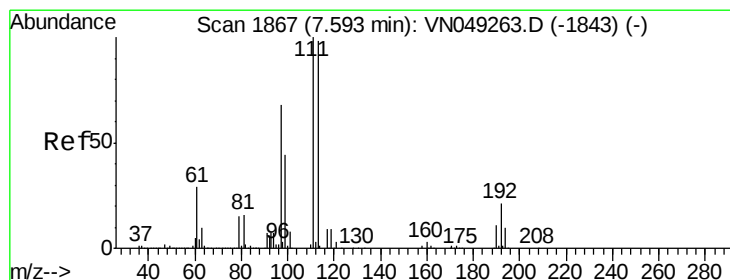
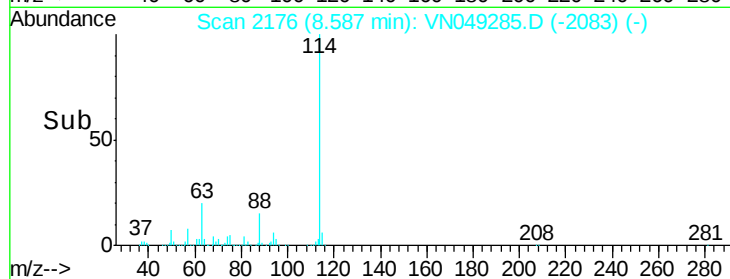
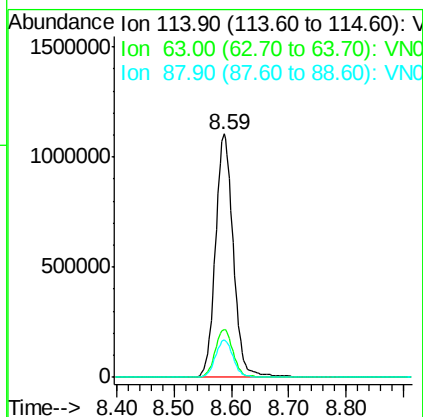
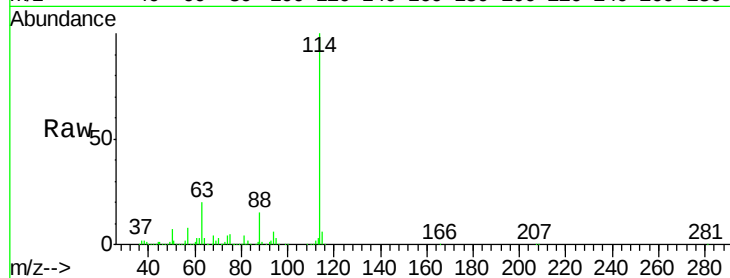




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN049285.D
 Acq: 16 Jun 2018 3:26

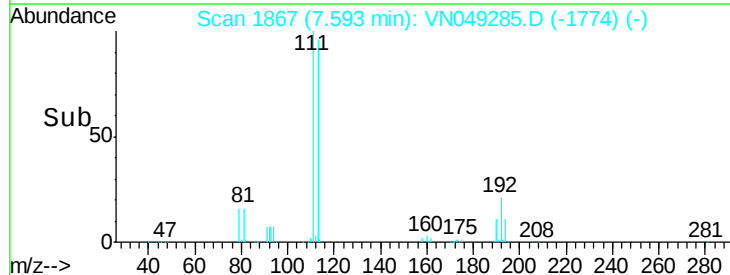
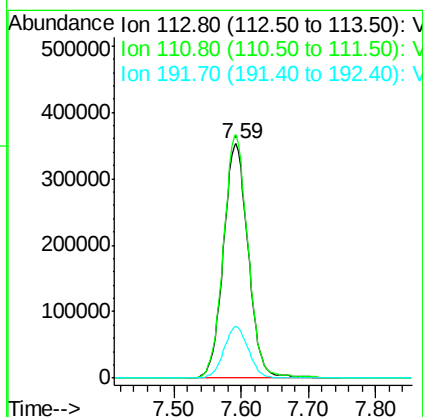
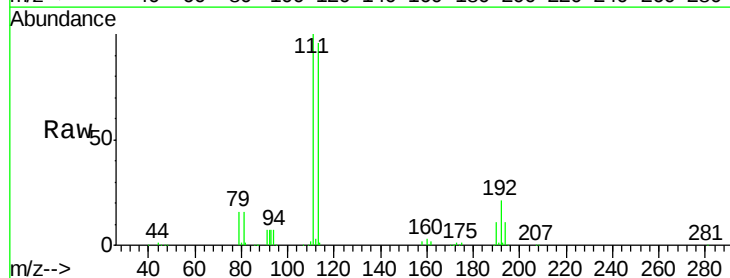
Instrument :
 MSVOA_N
 ClientSampled :

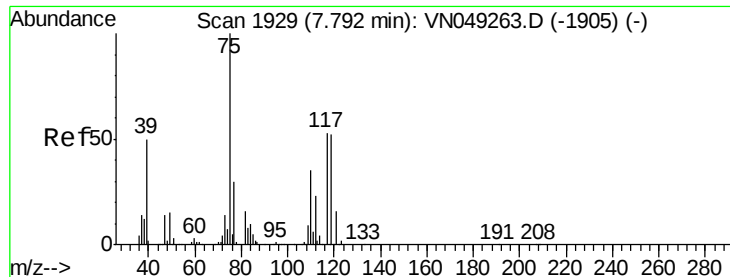
Tot Ion:114 Resp: 2394310
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 44.4
 88 15.4 0.0 31.4



#35
 Dibromofluoromethane
 Concen: 46.70 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049285.D
 Acq: 16 Jun 2018 3:26

Tgt Ion:113 Resp: 904582
 Ion Ratio Lower Upper
 113 100
 111 102.9 82.4 123.6
 192 21.6 15.0 22.6





#36

1,1-Dichloropropene

Concen: 3.74 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN049285.D

Acq: 16 Jun 2018 3:26

Instrument :

MSVOA_N

ClientSampleId :

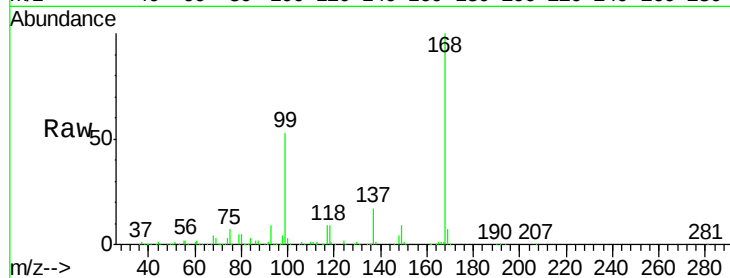
Tot Ion: 75 Resp: 102718

Ion Ratio Lower Upper

75 100

110 9.2 17.0 50.9#

77 0.1 24.4 36.6#



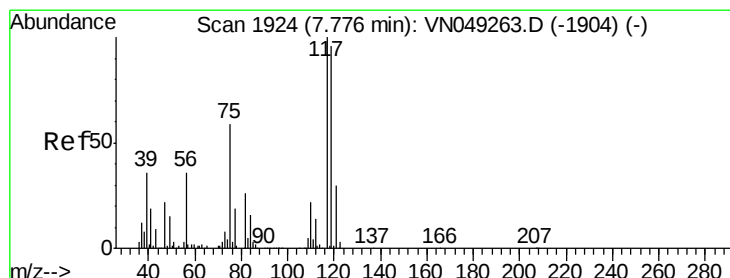
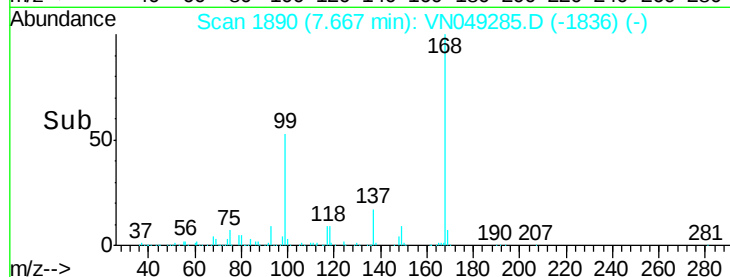
Abundance Ion 74.90 (74.60 to 75.60): VN049285.D (-1836) (-)

Ion 109.90 (109.60 to 110.60): VN049285.D (-1836) (-)

Ion 76.90 (76.60 to 77.60): VN049285.D (-1836) (-)

7.67

Time-->



#38

Carbon Tetrachloride

Concen: 4.79 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. -0.11 min

Lab File: VN049285.D

Acq: 16 Jun 2018 3:26

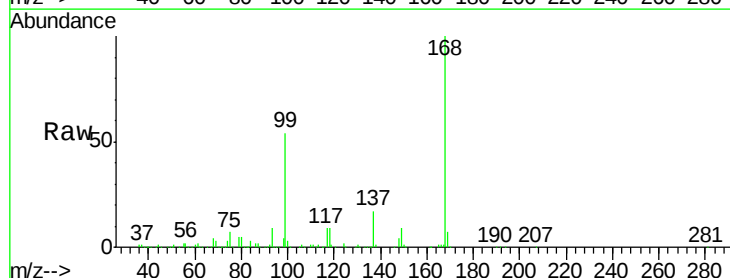
Tgt Ion: 117 Resp: 136038

Ion Ratio Lower Upper

117 100

119 6.4 75.6 113.4#

121 0.0 24.7 37.1#



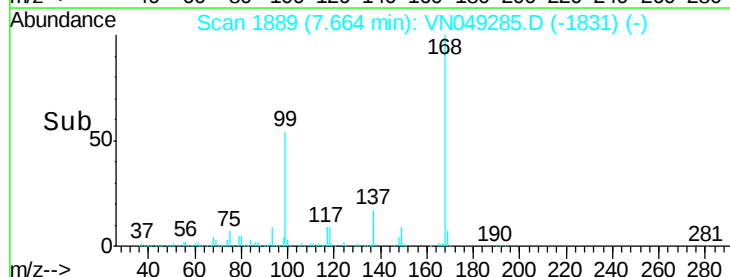
Abundance Ion 116.80 (116.50 to 117.50): VN049285.D (-1831) (-)

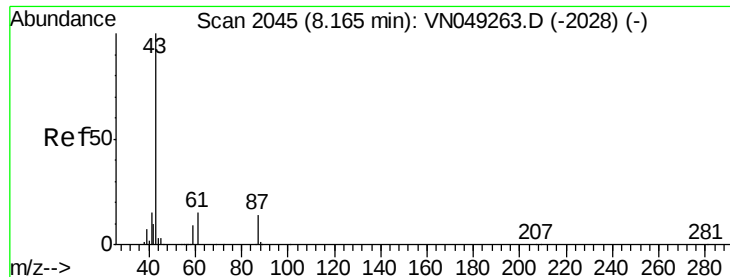
Ion 118.80 (118.50 to 119.50): VN049285.D (-1831) (-)

Ion 120.80 (120.50 to 121.50): VN049285.D (-1831) (-)

7.66

Time-->



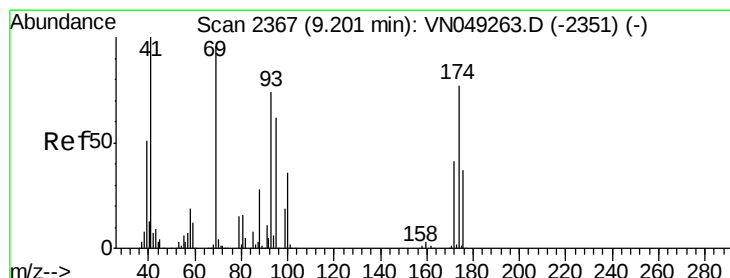
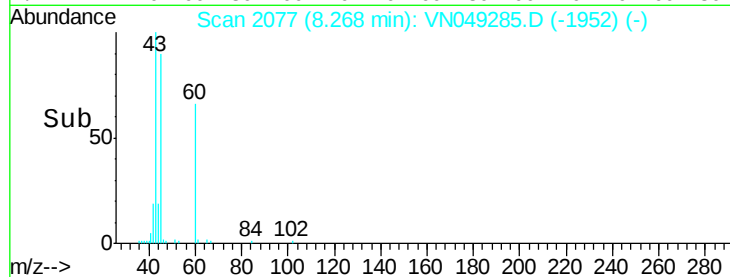
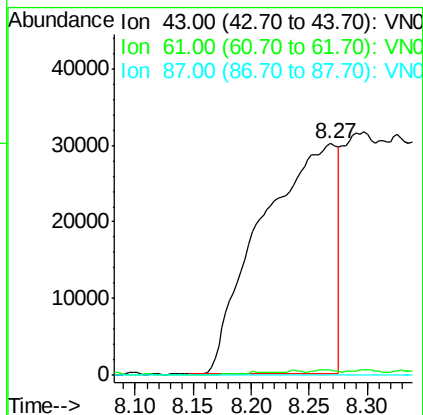
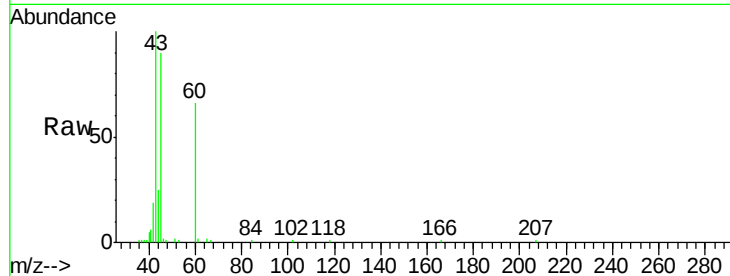


#43

Isopropyl Acetate
 Concen: 4.74 ug/l
 RT: 8.27 min Scan# 2077
 Delta R.T. 0.10 min
 Lab File: VN049285.D
 Acq: 16 Jun 2018 3:26

Instrument :
 MSVOA_N
 ClientSampleId :

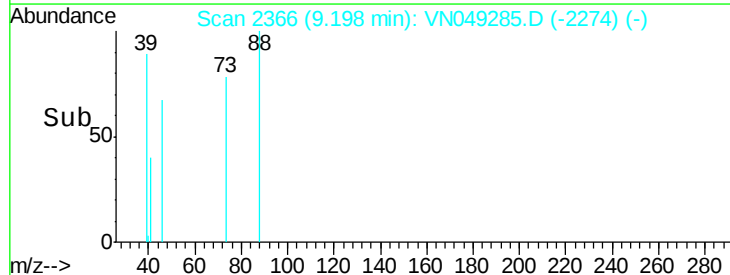
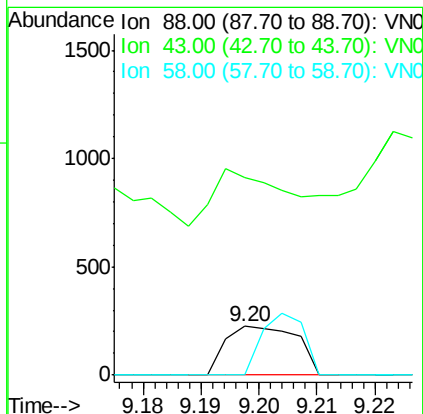
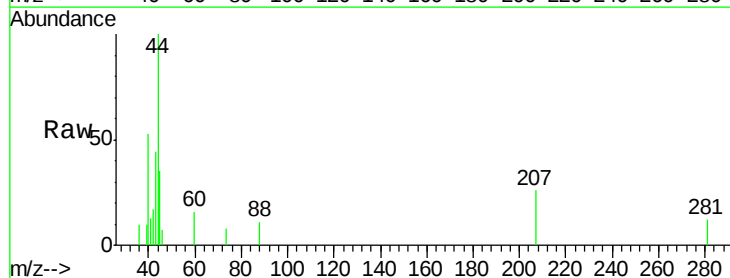
Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	14.2	21.4#
87	0.0	9.4	14.0#

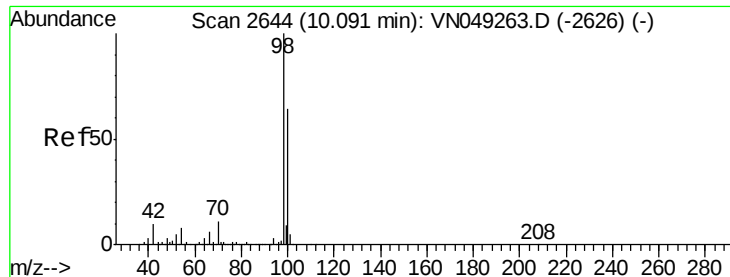


#49

1,4-Dioxane
 Concen: 1.03 ug/l
 RT: 9.20 min Scan# 2366
 Delta R.T. -0.00 min
 Lab File: VN049285.D
 Acq: 16 Jun 2018 3:26

Tgt Ion	Ratio	Lower	Upper
88	100		
43	109.9	30.9	46.3#
58	74.3	58.9	88.3





#50

Toluene-d8

Concen: 45.06 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN049285.D

Acq: 16 Jun 2018 3:26

Instrument :

MSVOA_N

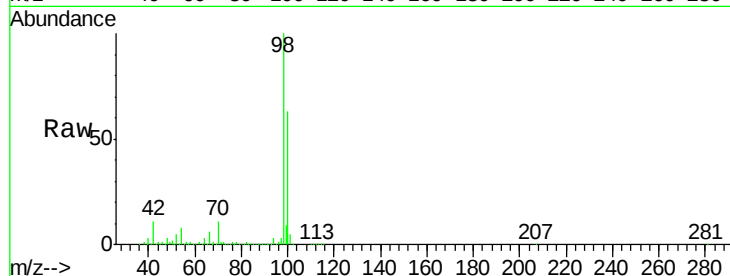
ClientSampled :

Tot Ion: 98 Resp: 3323308

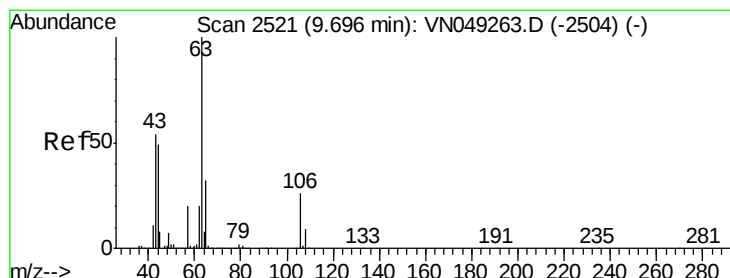
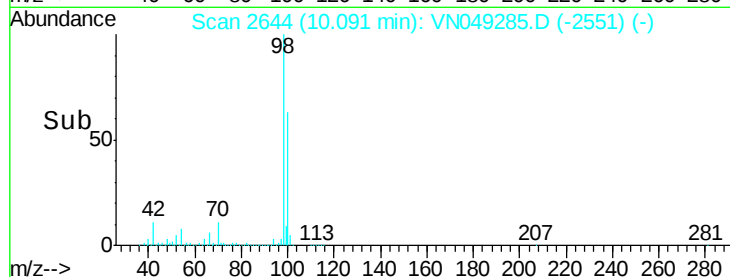
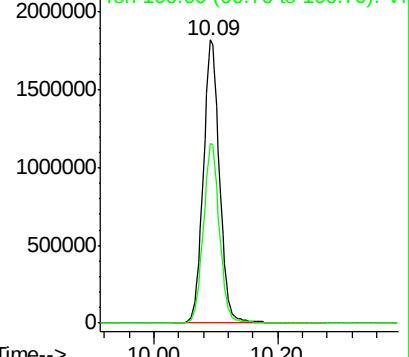
Ion Ratio Lower Upper

98 100

100 63.0 49.8 74.8



Abundance Ion 98.00 (97.70 to 98.70): VN049285.D (-2551) (-)



#58

2-Chloroethyl Vinyl ether

Concen: 14.34 ug/l

RT: 9.70 min Scan# 2521

Delta R.T. 0.00 min

Lab File: VN049285.D

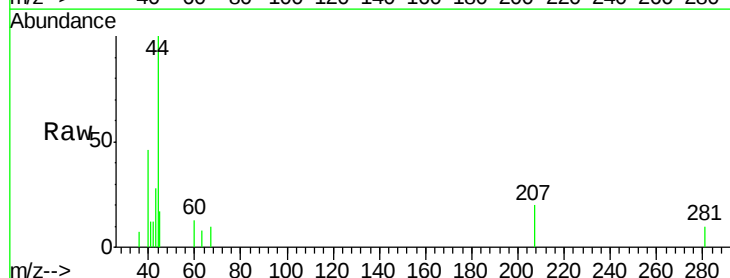
Acq: 16 Jun 2018 3:26

Tgt Ion: 63 Resp: 112

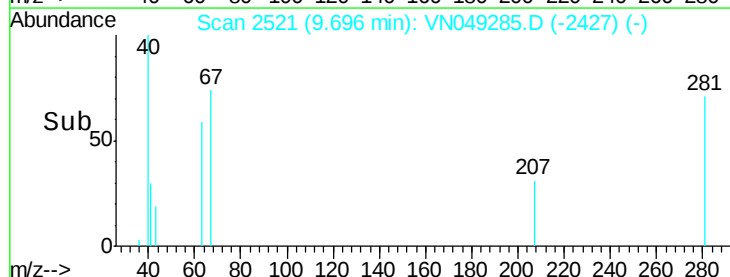
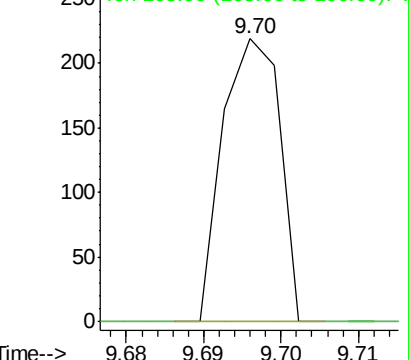
Ion Ratio Lower Upper

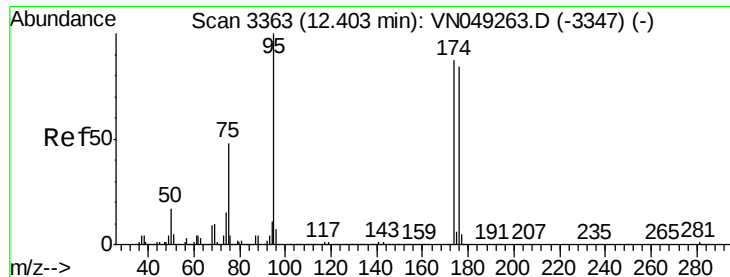
63 100

106 0.0 19.4 29.2#



Abundance Ion 62.90 (62.60 to 63.60): VN049285.D (-2427) (-)





#62

4-Bromofluorobenzene

Concen: 33.48 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049285.D

Acq: 16 Jun 2018 3:26

Instrument :

MSVOA_N

ClientSampleId :

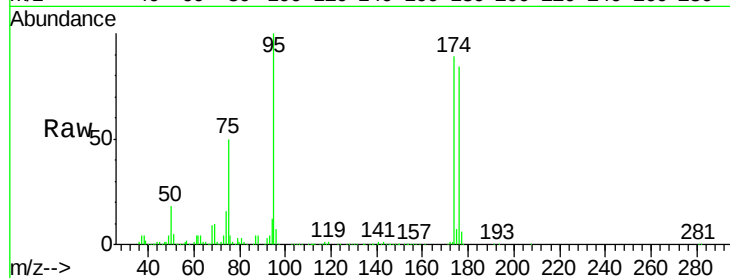
Tot Ion: 95 Resp: 816570

Ion Ratio Lower Upper

95 100

174 89.7 0.0 165.6

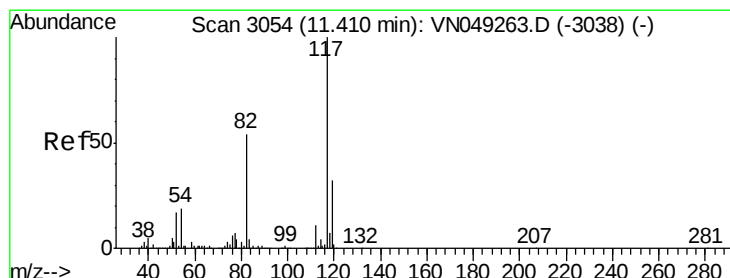
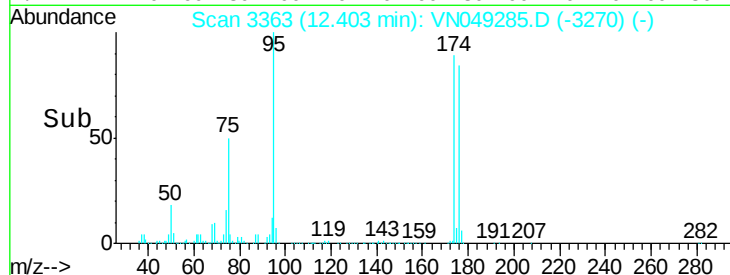
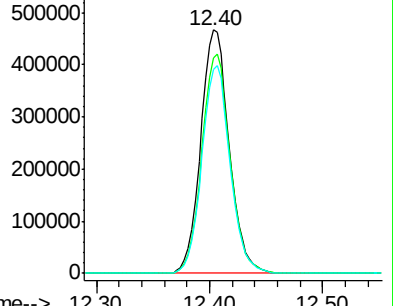
176 84.7 0.0 157.4



Abundance Ion 94.90 (94.60 to 95.60): VN049263.D (-3347) (-)

Ion 173.80 (173.50 to 174.50): VN049263.D (-3347) (-)

Ion 175.80 (175.50 to 176.50): VN049263.D (-3347) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN049285.D

Acq: 16 Jun 2018 3:26

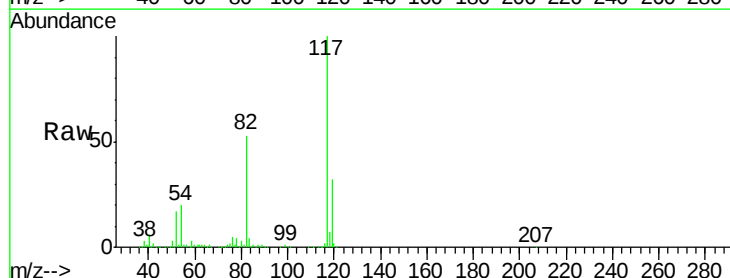
Tgt Ion: 117 Resp: 1976942

Ion Ratio Lower Upper

117 100

82 53.3 45.9 68.9

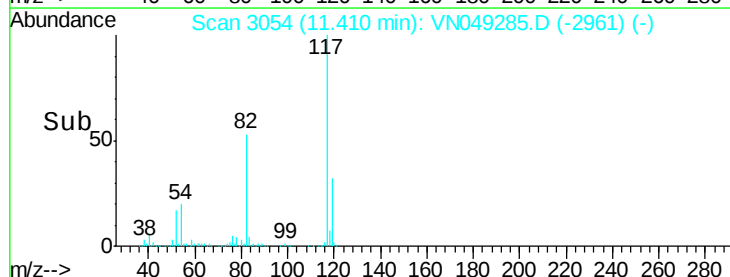
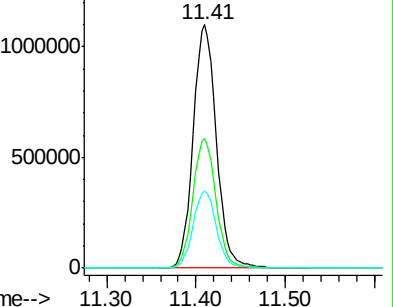
119 31.8 25.5 38.3

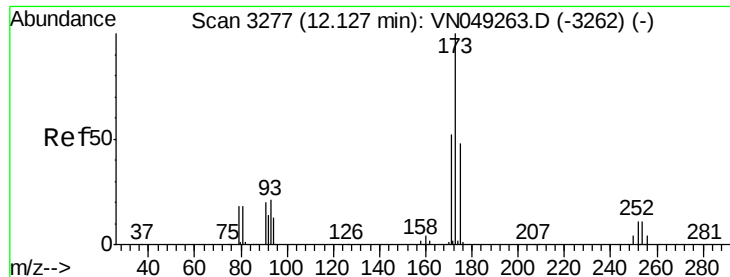


Abundance Ion 116.90 (116.60 to 117.60): VN049263.D (-3038) (-)

Ion 82.00 (81.70 to 82.70): VN049263.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN049263.D (-3038) (-)





#71

Bromoform

Concen: 0.53 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN049285.D

Acq: 16 Jun 2018 3:26

Instrument :

MSVOA_N

ClientSampleId :

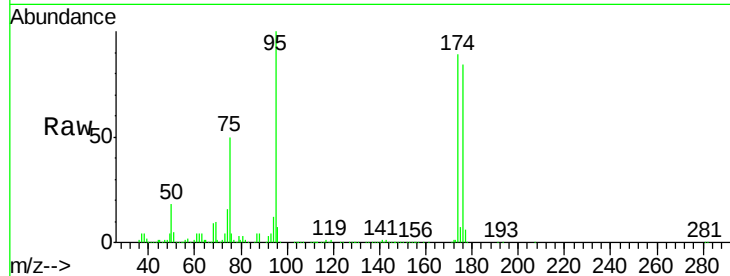
Tot Ion:173 Resp: 6533

Ion Ratio Lower Upper

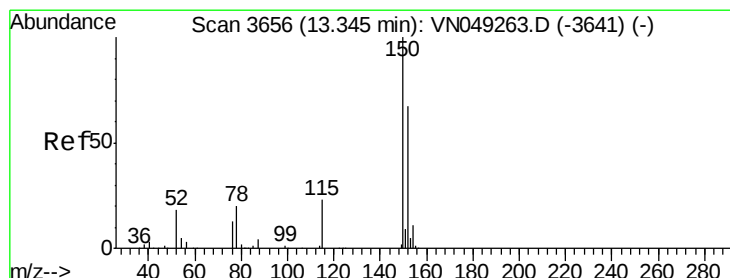
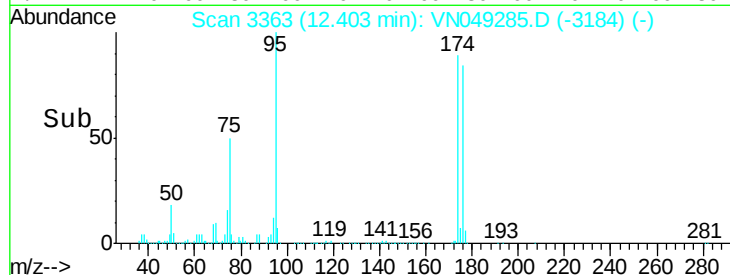
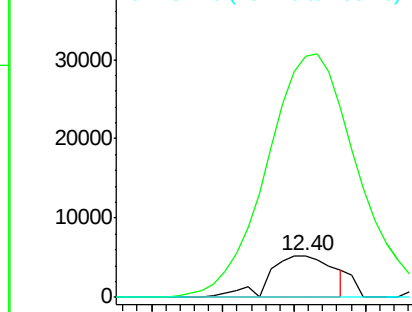
173 100

175 647.6 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: VN049285.D

Acq: 16 Jun 2018 3:26

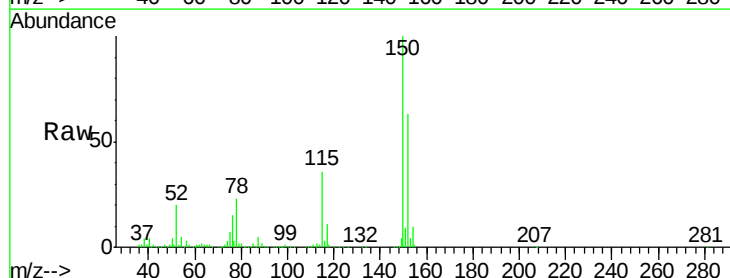
Tgt Ion:152 Resp: 547332

Ion Ratio Lower Upper

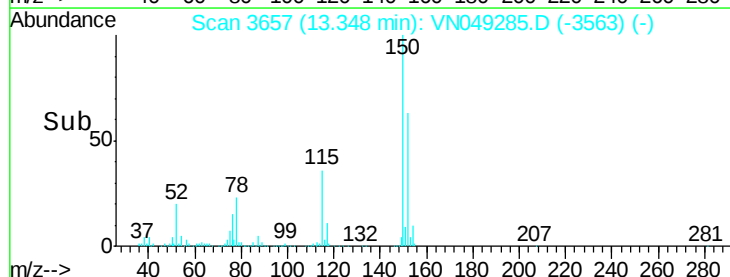
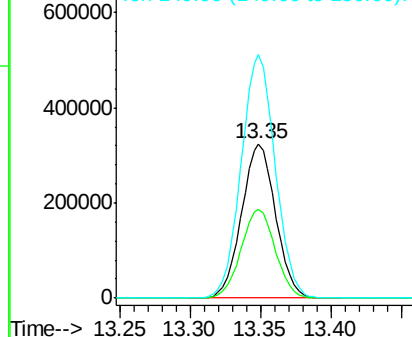
152 100

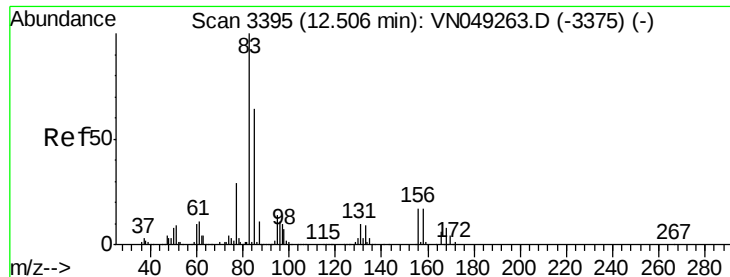
115 57.9 28.7 86.1

150 158.3 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# 3396

Delta R.T. 0.00 min

Lab File: VN049285.D

Acq: 16 Jun 2018 3:26

Instrument :

MSVOA_N

ClientSampleId :

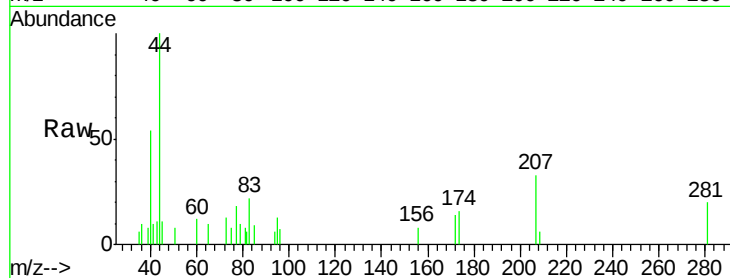
Tot Ion: 83 Resp: 547

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

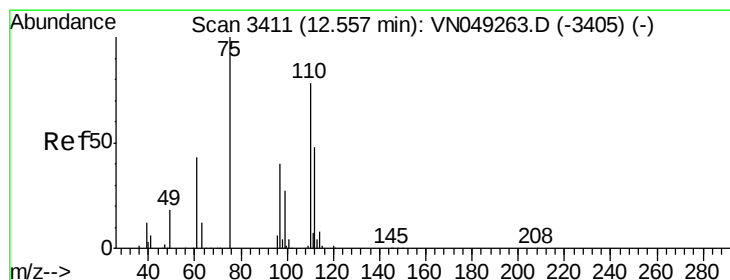
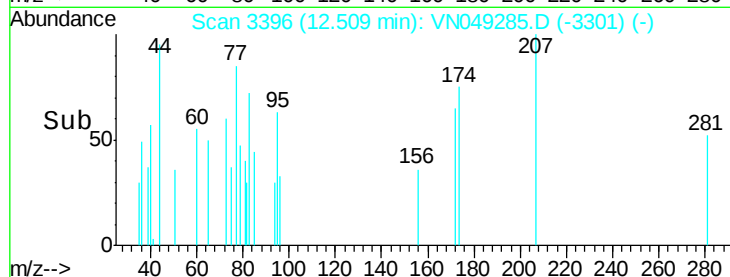
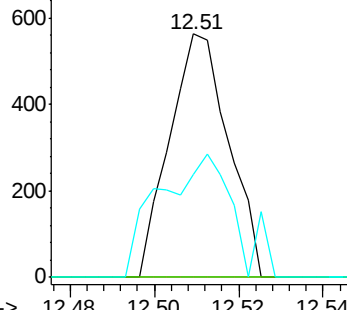
85 64.9 32.0 96.0



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 43.12 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049285.D

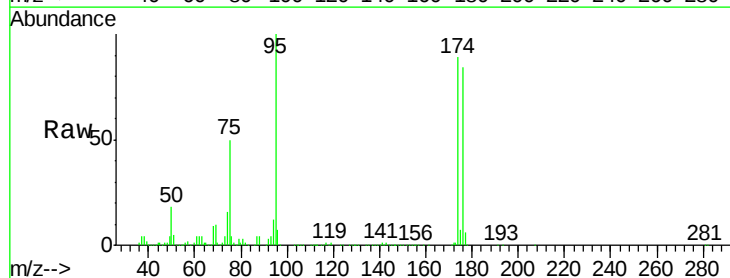
Acq: 16 Jun 2018 3:26

Tgt Ion: 75 Resp: 402665

Ion Ratio Lower Upper

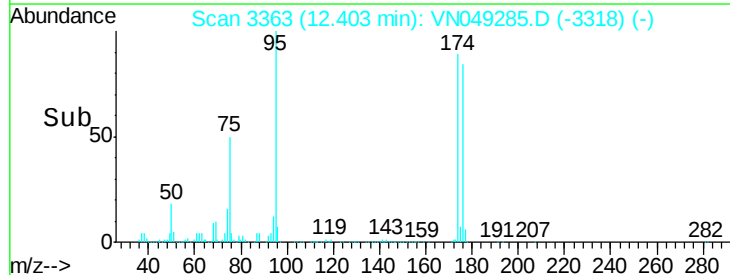
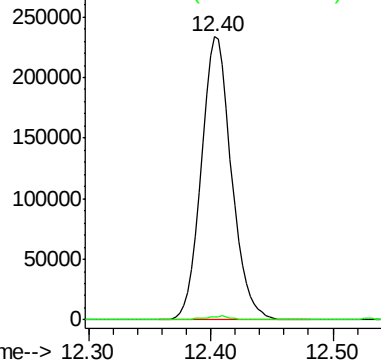
75 100

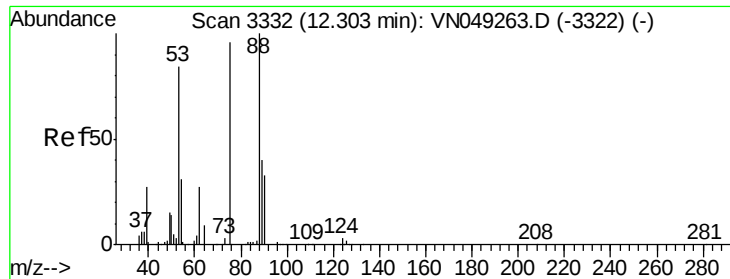
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#81

trans-1,4-Dichloro-2-butene

Concen: 136.27 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049285.D

Acq: 16 Jun 2018 3:26

Instrument :

MSVOA_N

ClientSampled :

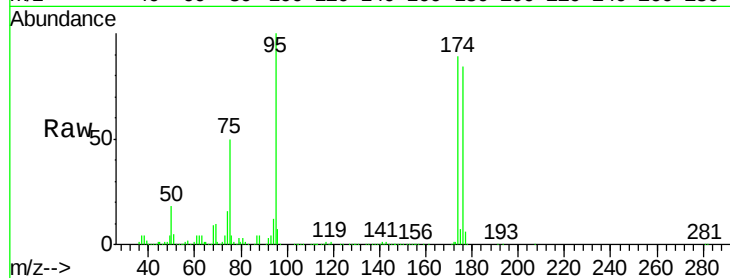
Tot Ion: 75 Resp: 402665

Ion Ratio Lower Upper

75 100

53 0.2 82.7 124.1#

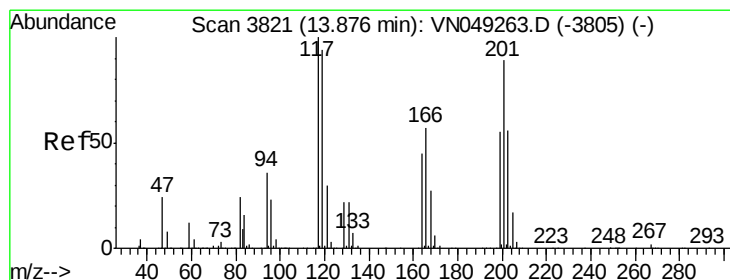
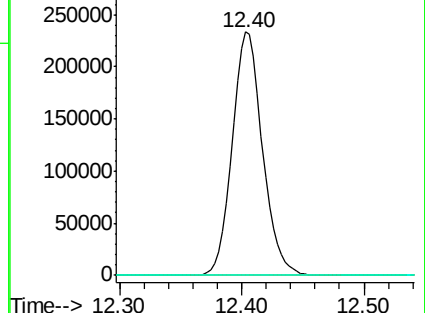
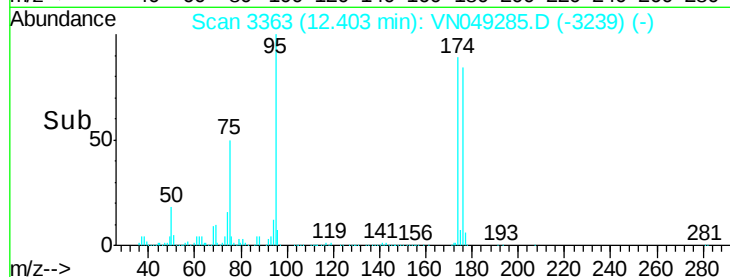
89 0.0 36.5 54.7#



Abundance Ion 74.90 (74.60 to 75.60): VN049285.D (-3239) (-)

Ion 53.00 (52.70 to 53.70): VN049285.D (-3239) (-)

Ion 88.90 (88.60 to 89.60): VN049285.D (-3239) (-)



#90

Hexachloroethane

Concen: Below Cal

RT: 13.66 min Scan# 3754

Delta R.T. -0.21 min

Lab File: VN049285.D

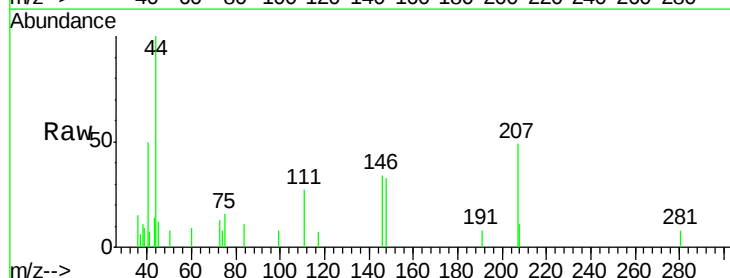
Acq: 16 Jun 2018 3:26

Tgt Ion: 117 Resp: 91

Ion Ratio Lower Upper

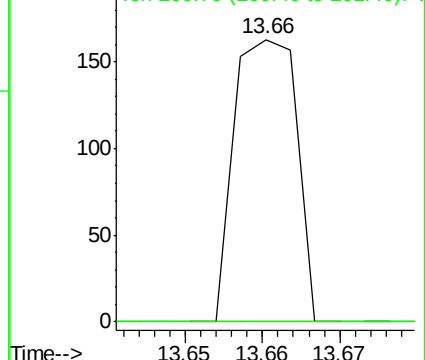
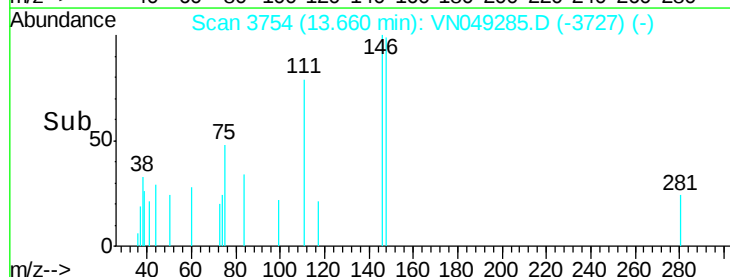
117 100

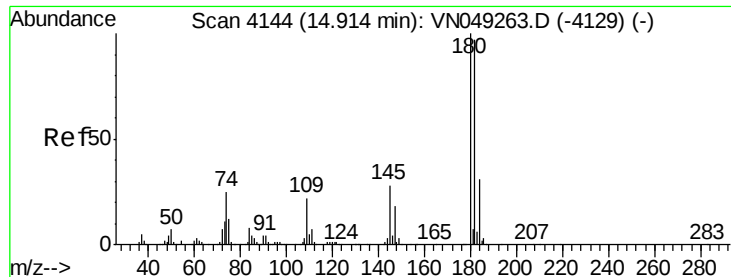
201 0.0 40.1 120.2#



Abundance Ion 116.80 (116.50 to 117.50): VN049285.D (-3727) (-)

Ion 200.70 (200.40 to 201.40): VN049285.D (-3727) (-)

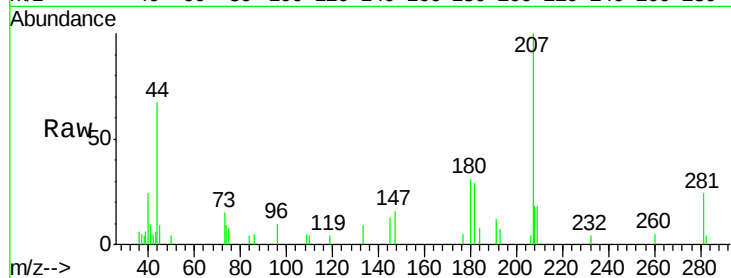




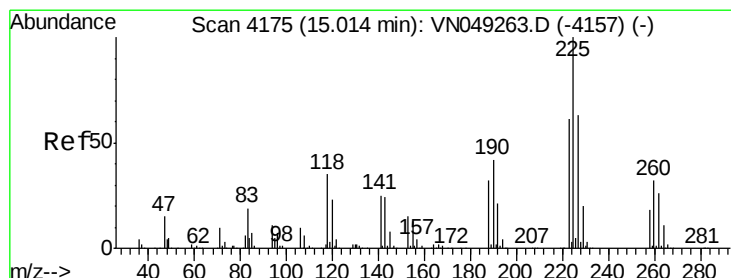
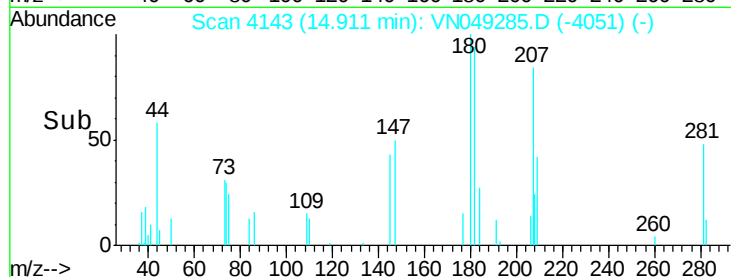
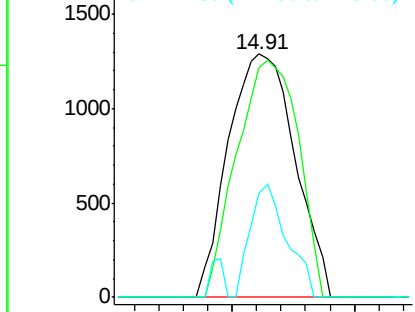
#93
 1,2,4-Trichlorobenzene
 Concen: 4.98 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. -0.00 min
 Lab File: VN049285.D
 Acq: 16 Jun 2018 3:26

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 2444
 Ion Ratio Lower Upper
 180 100
 182 90.2 46.9 140.8
 145 25.4 14.7 44.1

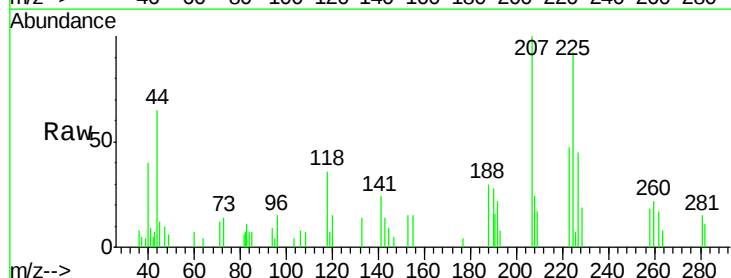


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

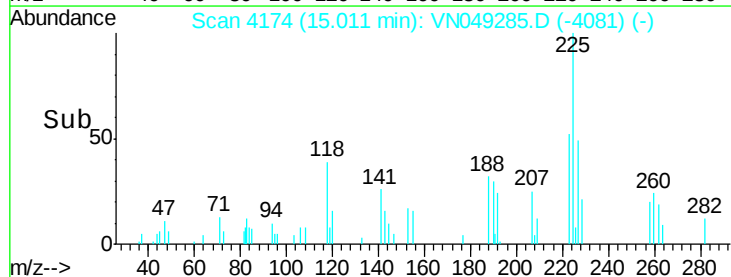
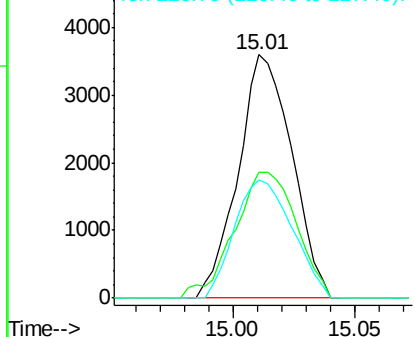


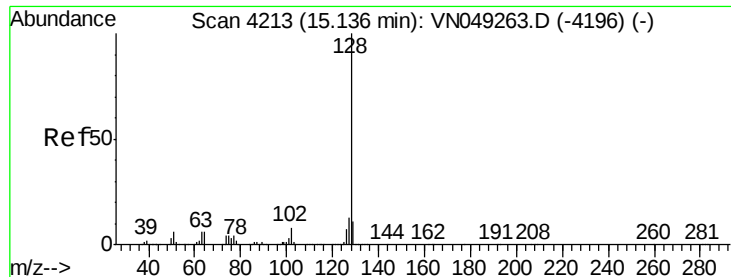
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4174
 Delta R.T. -0.00 min
 Lab File: VN049285.D
 Acq: 16 Jun 2018 3:26

Tgt Ion:225 Resp: 5490
 Ion Ratio Lower Upper
 225 100
 223 59.7 32.1 96.3
 227 52.3 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: 2.36 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

Lab File: VN049285.D

Acq: 16 Jun 2018 3:26

Instrument :

MSVOA_N

ClientSampleId :

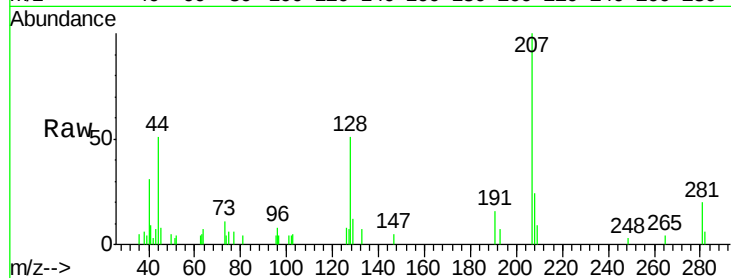
Tot Ion:128 Resp: 4280

Ion Ratio Lower Upper

128 100

127 7.7 10.6 16.0#

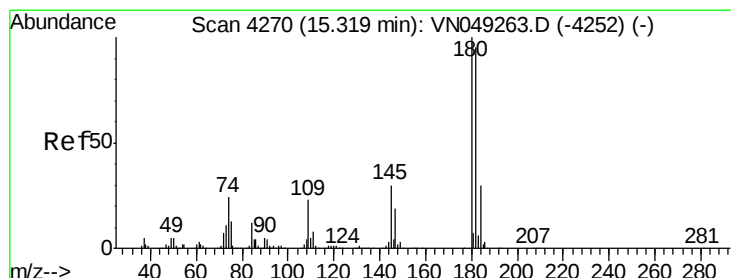
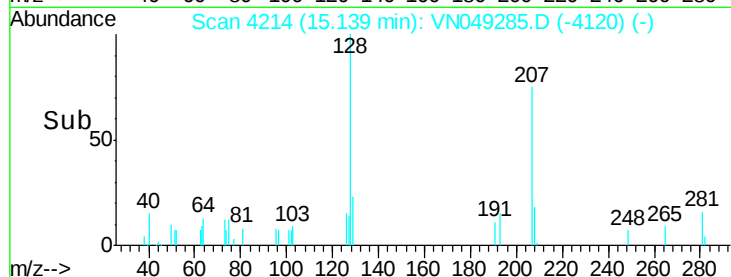
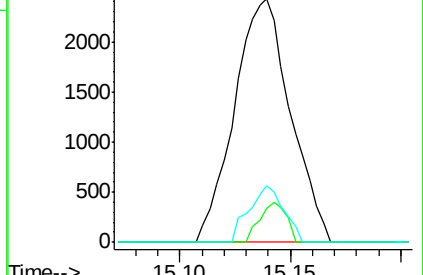
129 14.4 8.5 12.7#



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: 3.77 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. -0.00 min

Lab File: VN049285.D

Acq: 16 Jun 2018 3:26

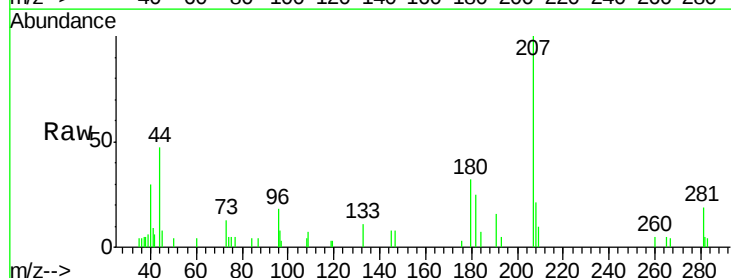
Tgt Ion:180 Resp: 3034

Ion Ratio Lower Upper

180 100

182 86.2 47.3 141.8

145 18.9 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

