

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061618\
 Data File : VN049317.D
 Acq On : 16 Jun 2018 18:37
 Operator : MD\SY
 Sample : J3564-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 18 03:20:24 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	1612557	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2583884	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2224680	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	839988	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	1082508	50.61	ug/l	0.00
Spiked Amount			Recovery	=	101.22%	
35) Dibromofluoromethane	7.59	113	968130	46.31	ug/l	0.00
Spiked Amount			Recovery	=	92.62%	
50) Toluene-d8	10.09	98	3619593	45.47	ug/l	0.00
Spiked Amount			Recovery	=	90.94%	
62) 4-Bromofluorobenzene	12.40	95	1069529	40.64	ug/l	0.00
Spiked Amount			Recovery	=	81.28%	

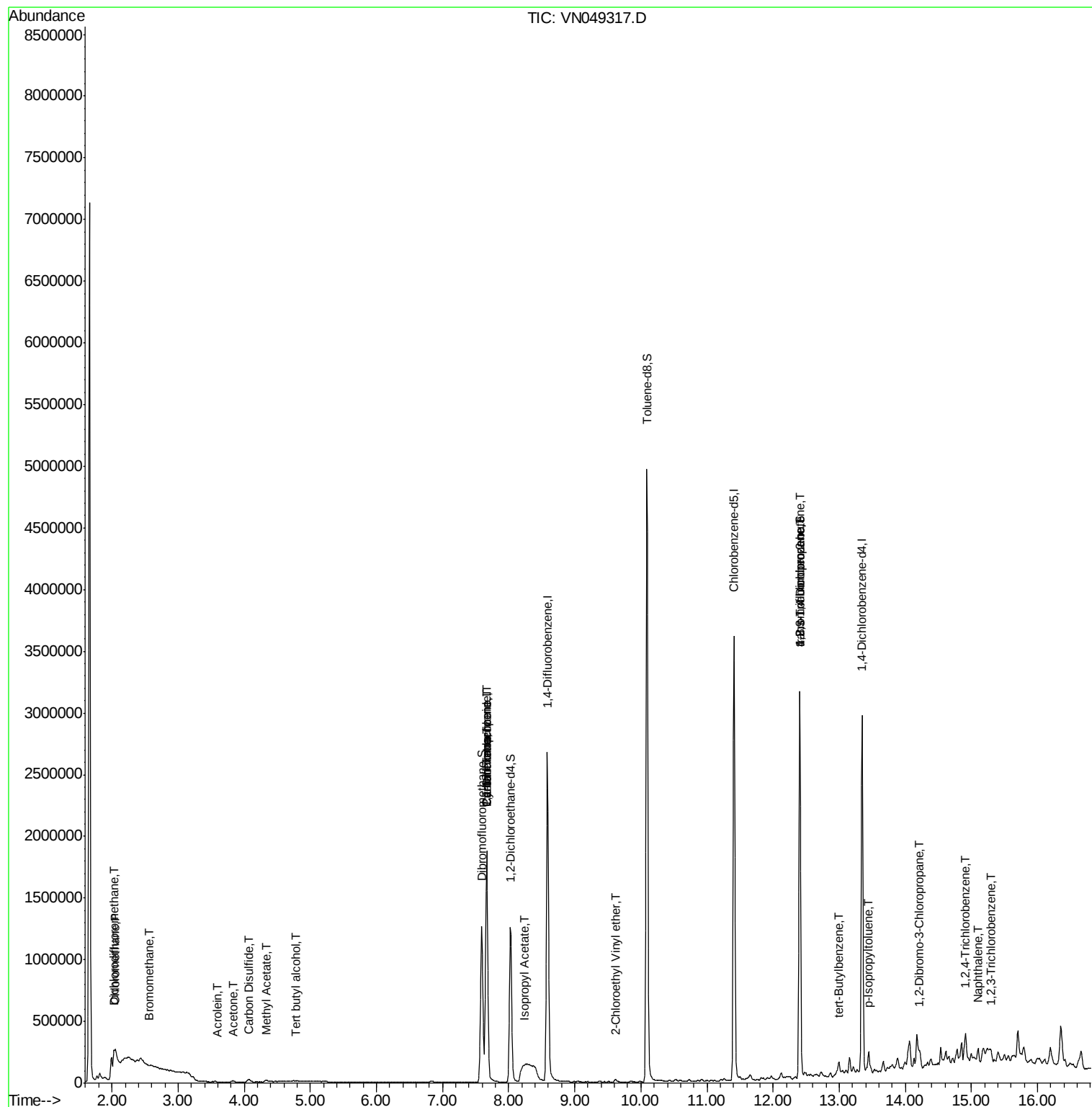
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.03	85	17834	0.96	ug/l	97
3) Chloromethane	2.06	50	10979	0.46	ug/l #	79
5) Bromomethane	2.57	94	4938	0.37	ug/l	84
11) Tert butyl alcohol	4.79	59	3041	2.42	ug/l #	85
13) Acrolein	3.61	56	295	0.22	ug/l	99
16) Acetone	3.82	43	16996	3.27	ug/l #	82
17) Carbon Disulfide	4.05	76	27601	0.48	ug/l #	92
18) Methyl Acetate	4.34	43	29513	1.86	ug/l	99
31) Cyclohexane	7.67	56	29800	0.77	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	113230	3.82	ug/l #	50
38) Carbon Tetrachloride	7.67	117	148314	4.84	ug/l #	17
43) Isopropyl Acetate	8.22	43	140566	4.57	ug/l #	64
58) 2-Chloroethyl Vinyl ether	9.63	63	71	14.33	ug/l #	51
75) 1,1,2,2-Tetrachloroethane	12.50	83	331	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	520269	36.30	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	520269	114.73	ug/l #	8
83) tert-Butylbenzene	12.99	119	41190	0.80	ug/l	97
86) p-Isopropyltoluene	13.44	119	82038	1.44	ug/l	93
90) Hexachloroethane	13.89	117	3843	Below Cal	#	14
92) 1,2-Dibromo-3-Chloropropan	14.22	75	871	0.34	ug/l	80
93) 1,2,4-Trichlorobenzene	14.91	180	1027	4.81	ug/l #	1
94) Hexachlorobutadiene	15.01	225	354	Below Cal	#	21
95) Naphthalene	15.10	128	7738	2.41	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.31	180	525	3.49	ug/l #	1

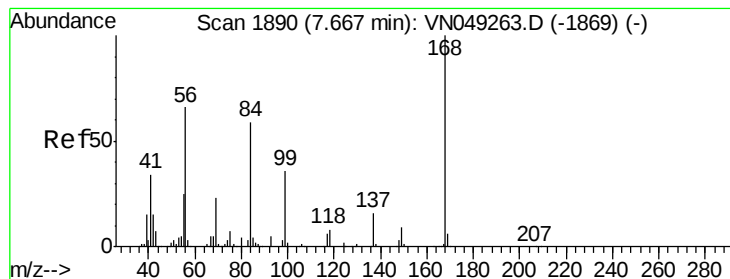
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 18 03:20:24 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





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049317.D

Acq: 16 Jun 2018 18:37

Instrument :

MSVOA_N

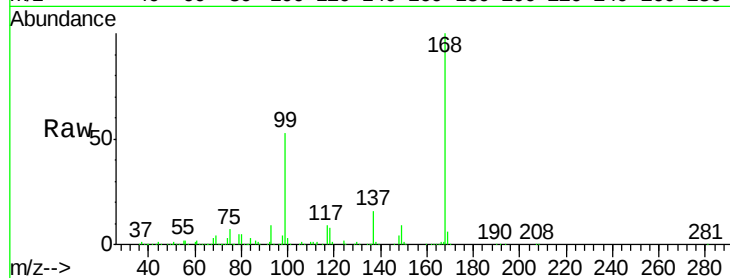
ClientSampleId :

Tot Ion:168 Resp: 1612557

Ion Ratio Lower Upper

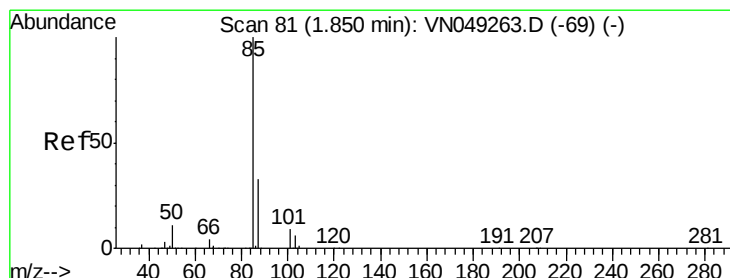
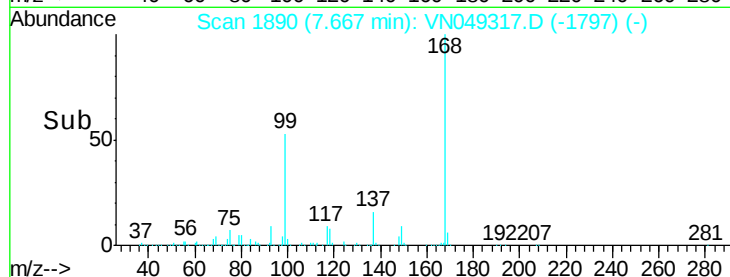
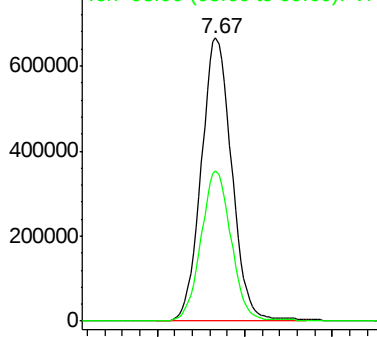
168 100

99 53.3 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#2

Dichlorodifluoromethane

Concen: 0.96 ug/l

RT: 2.03 min Scan# 136

Delta R.T. 0.18 min

Lab File: VN049317.D

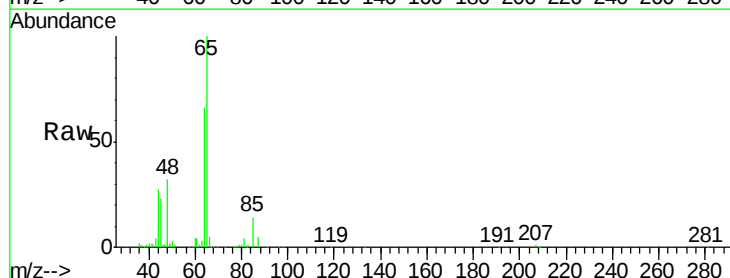
Acq: 16 Jun 2018 18:37

Tgt Ion: 85 Resp: 17834

Ion Ratio Lower Upper

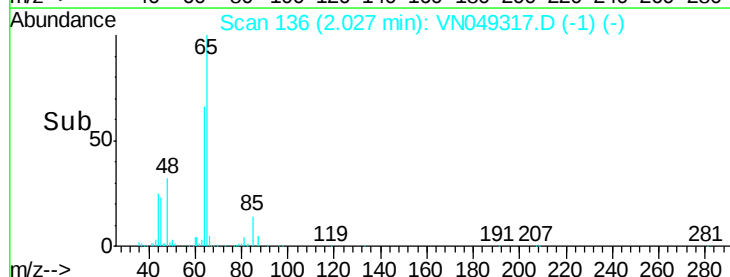
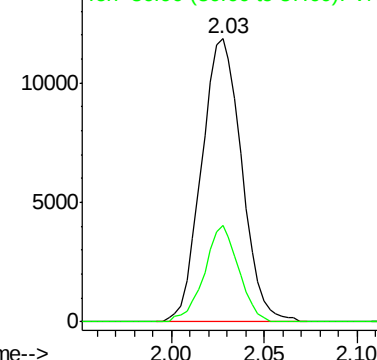
85 100

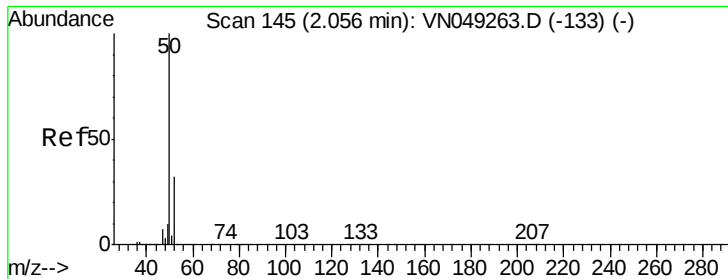
87 34.1 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0





#3

Chloromethane

Concen: 0.46 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN049317.D

Acq: 16 Jun 2018 18:37

Instrument :

MSVOA_N

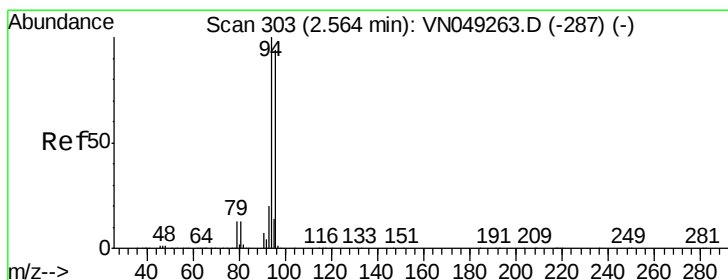
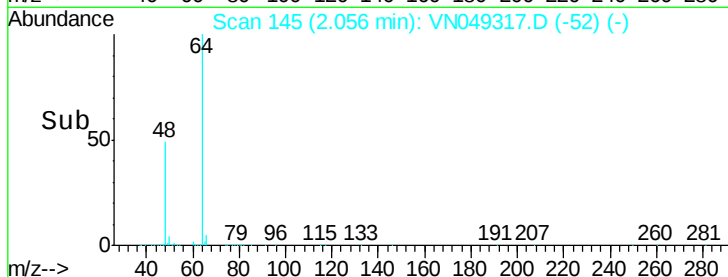
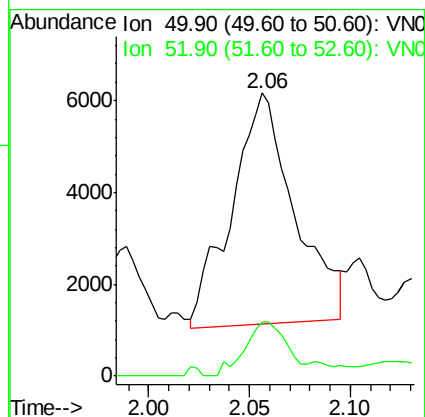
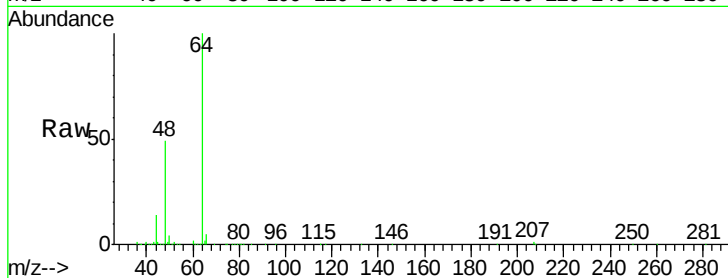
ClientSampled :

Tot Ion: 50 Resp: 10979

Ion Ratio Lower Upper

50 100

52 19.7 25.2 37.8#



#5

Bromomethane

Concen: 0.37 ug/l

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN049317.D

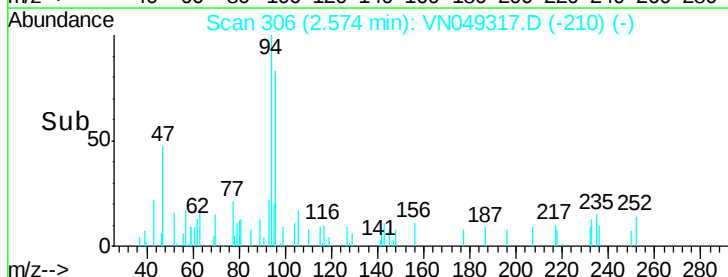
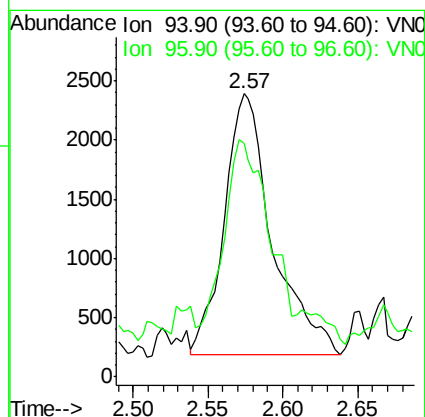
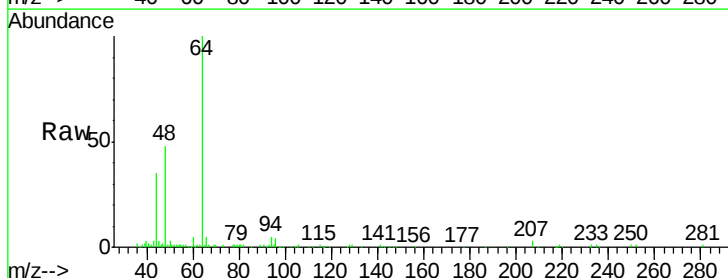
Acq: 16 Jun 2018 18:37

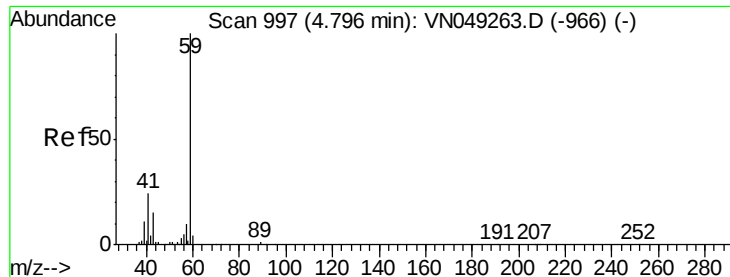
Tgt Ion: 94 Resp: 4938

Ion Ratio Lower Upper

94 100

96 75.5 72.8 109.2

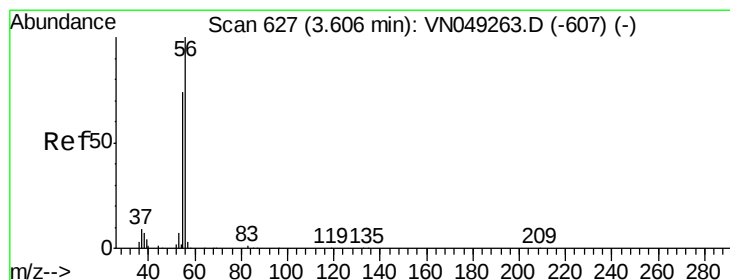
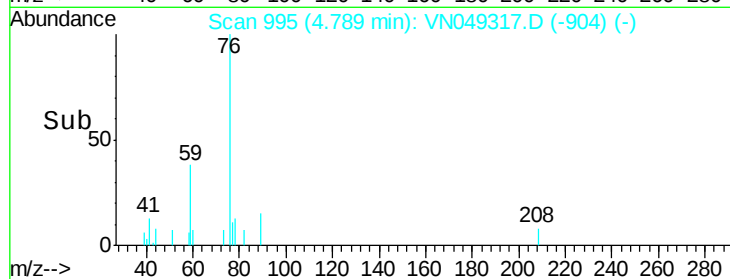
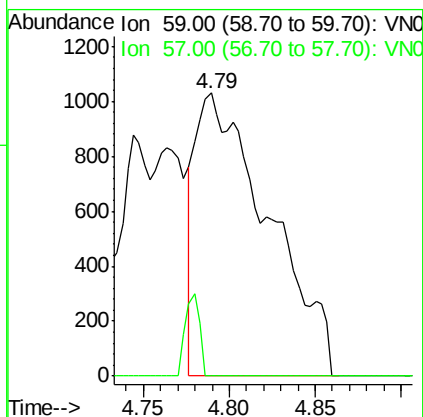
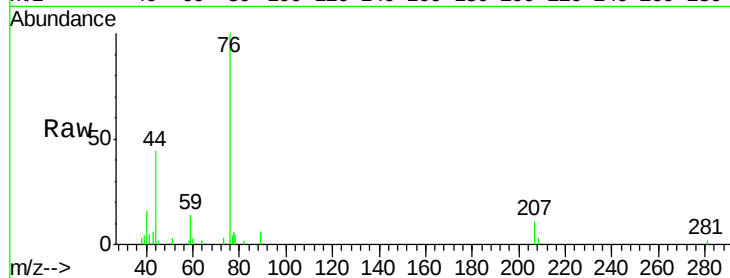




#11
Tert butyl alcohol
Concen: 2.42 ug/l
RT: 4.79 min Scan# 995
Delta R.T. -0.01 min
Lab File: VN049317.D
Acq: 16 Jun 2018 18:37

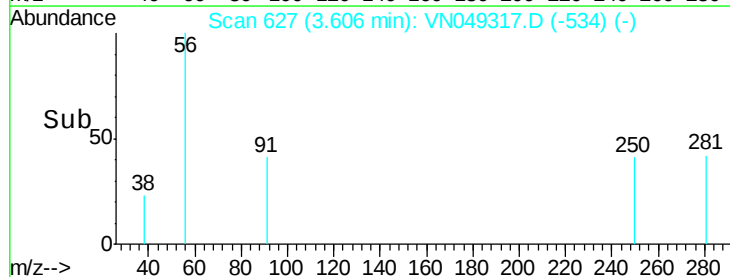
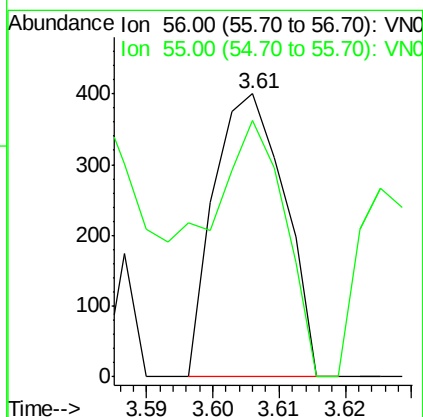
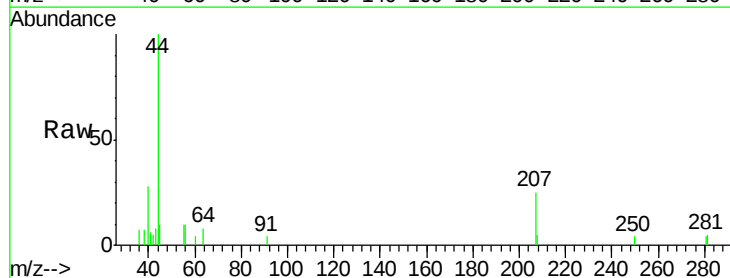
Instrument :
MSVOA_N
ClientSampled :

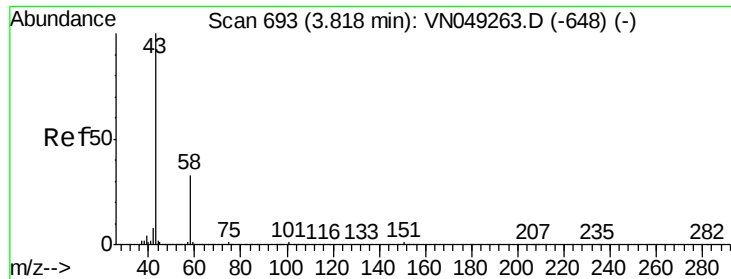
Tot Ion: 59 Resp: 3041
Ion Ratio Lower Upper
59 100
57 5.8 9.0 13.6#



#13
Acrolein
Concen: 0.22 ug/l
RT: 3.61 min Scan# 627
Delta R.T. 0.00 min
Lab File: VN049317.D
Acq: 16 Jun 2018 18:37

Tgt Ion: 56 Resp: 295
Ion Ratio Lower Upper
56 100
55 72.5 57.1 85.7





#16

Acetone

Concen: 3.27 ug/l

RT: 3.82 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN049317.D

Acq: 16 Jun 2018 18:37

Instrument :

MSVOA_N

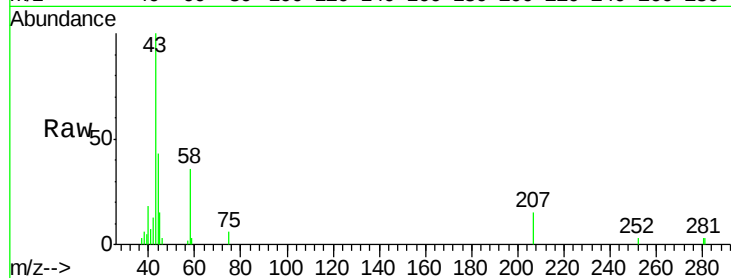
ClientSampleId :

Tot Ion: 43 Resp: 16996

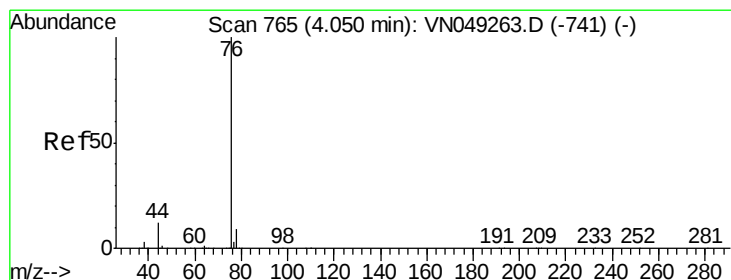
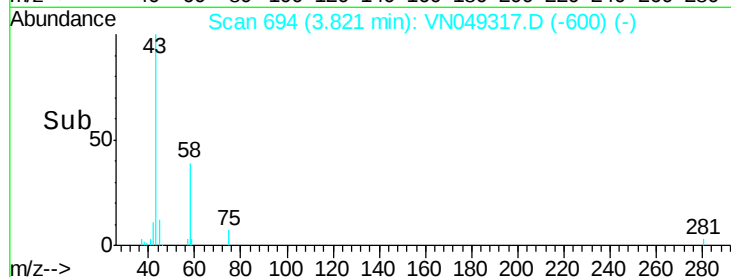
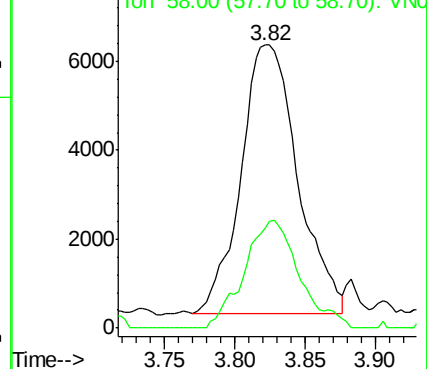
Ion Ratio Lower Upper

43 100

58 37.6 22.4 33.6#



Abundance Ion 43.00 (42.70 to 43.70): VN049317.D (-600) (-)



#17

Carbon Disulfide

Concen: 0.48 ug/l

RT: 4.05 min Scan# 766

Delta R.T. 0.00 min

Lab File: VN049317.D

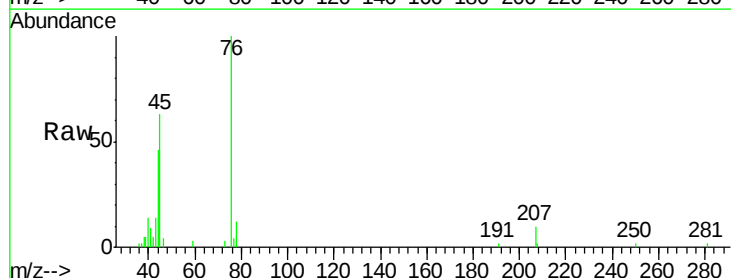
Acq: 16 Jun 2018 18:37

Tgt Ion: 76 Resp: 27601

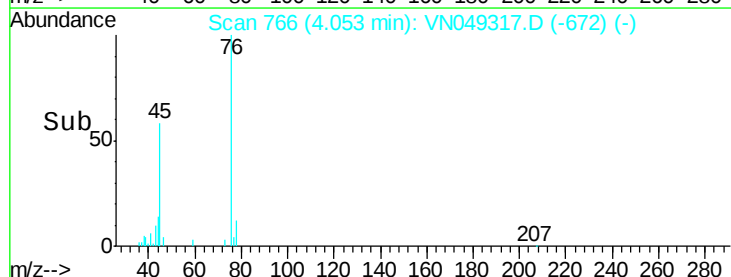
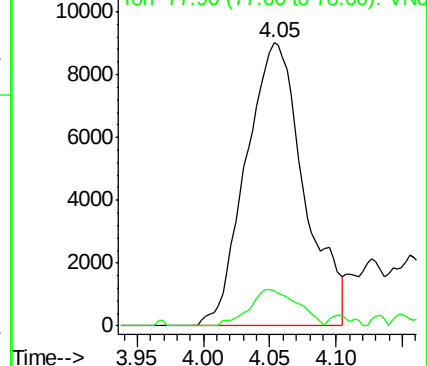
Ion Ratio Lower Upper

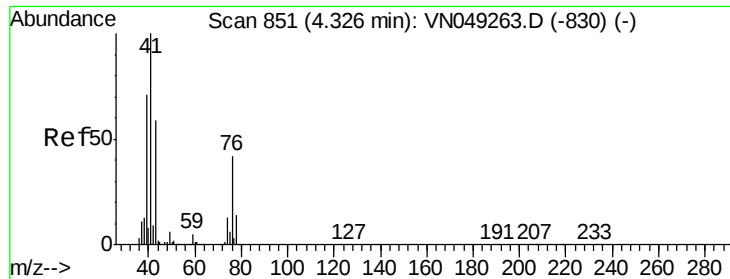
76 100

78 12.2 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN049317.D (-672) (-)

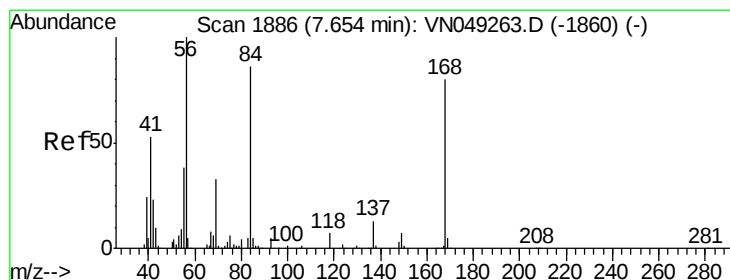
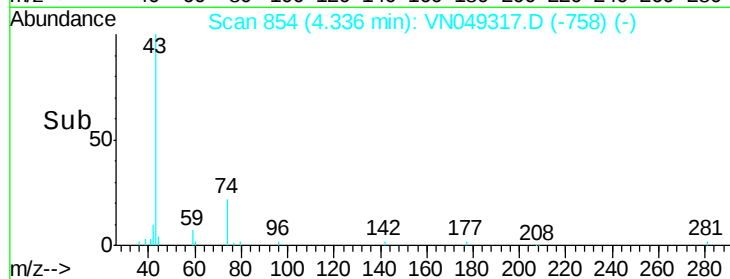
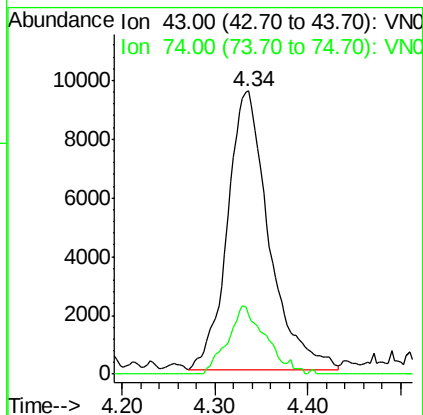
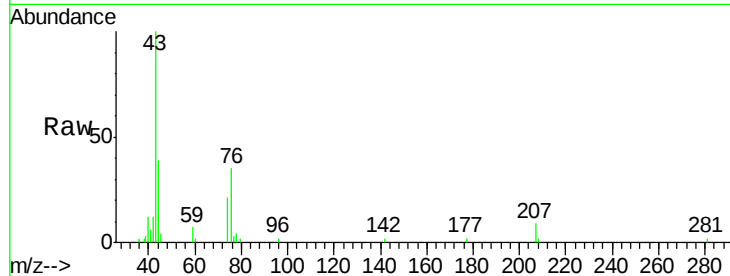




#18
Methvl Acetate
Concen: 1.86 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN049317.D
Acq: 16 Jun 2018 18:37

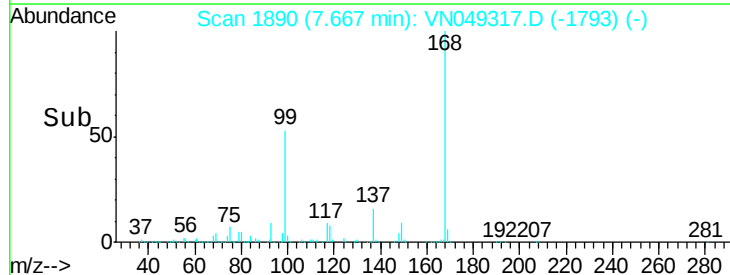
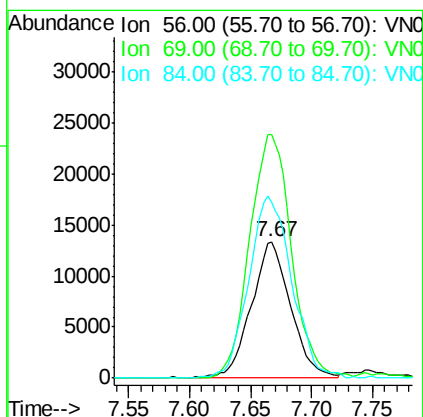
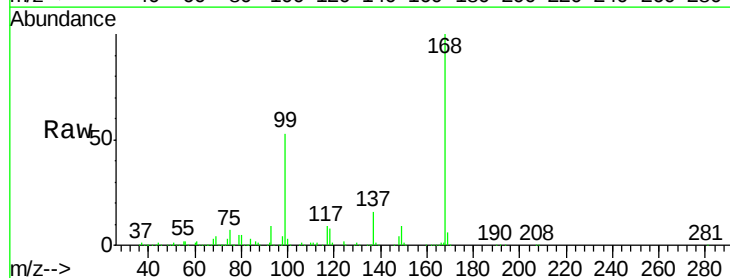
Instrument :
MSVOA_N
ClientSampled :

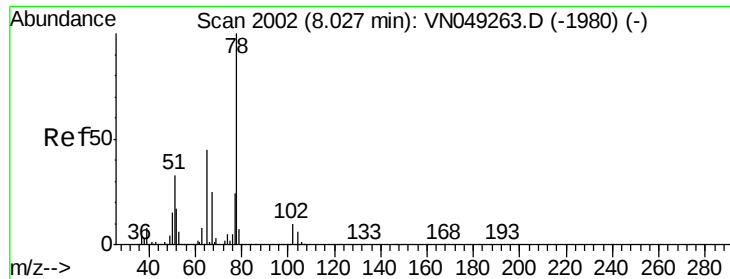
Tot Ion: 43 Resp: 29513
Ion Ratio Lower Upper
43 100
74 22.2 17.4 26.0



#31
Cyclohexane
Concen: 0.77 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN049317.D
Acq: 16 Jun 2018 18:37

Tgt Ion: 56 Resp: 29800
Ion Ratio Lower Upper
56 100
69 178.5 25.0 37.4#
84 129.0 64.6 96.8#





#33

1,2-Dichloroethane-d4

Concen: 50.61 ug/l

RT: 8.03 min Scan# 2002

Delta R.T. 0.00 min

Lab File: VN049317.D

Acq: 16 Jun 2018 18:37

Instrument :

MSVOA_N

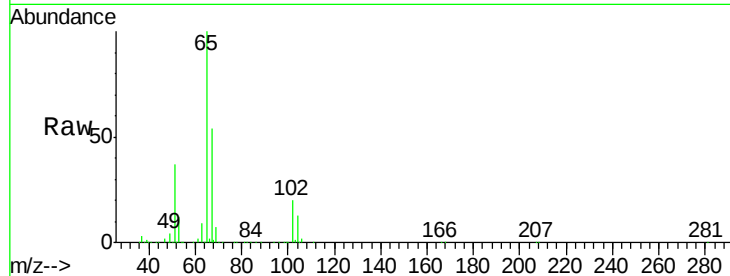
ClientSampleId :

Tot Ion: 65 Resp: 1082508

Ion Ratio Lower Upper

65 100

67 54.4 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN049317.D (-1909) (-)

Ion 66.90 (66.60 to 67.60): VN049317.D (-1909) (-)

8.03

500000

400000

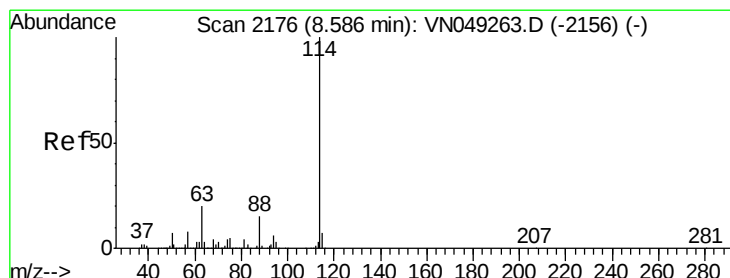
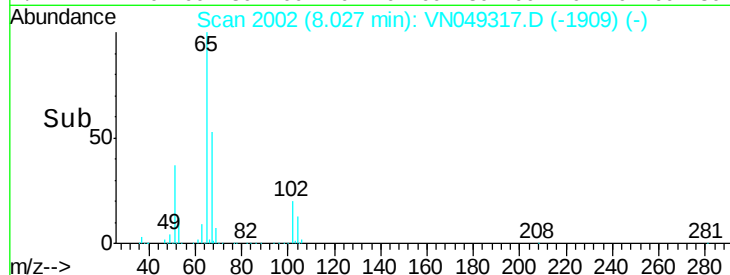
300000

200000

100000

0

Time--> 7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VN049317.D

Acq: 16 Jun 2018 18:37

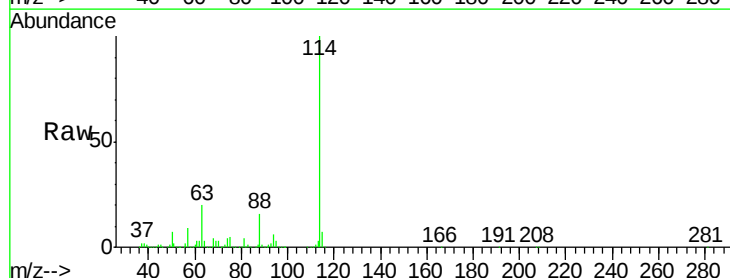
Tgt Ion: 114 Resp: 2583884

Ion Ratio Lower Upper

114 100

63 20.5 0.0 44.4

88 15.7 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): VN049317.D (-2083) (-)

Ion 63.00 (62.70 to 63.70): VN049317.D (-2083) (-)

Ion 87.90 (87.60 to 88.60): VN049317.D (-2083) (-)

8.59

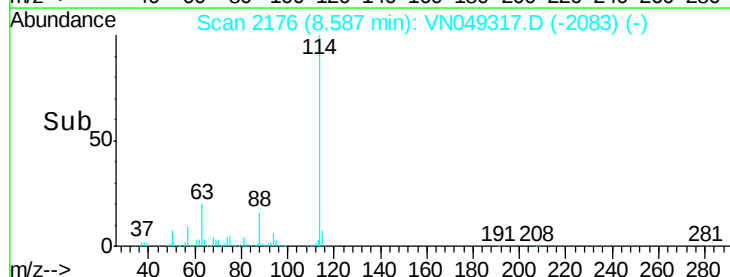
1500000

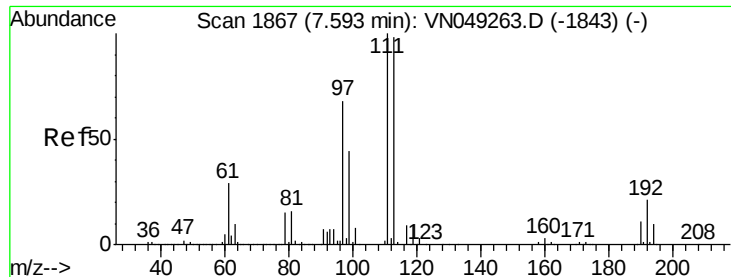
1000000

500000

0

Time--> 8.50 8.60 8.70

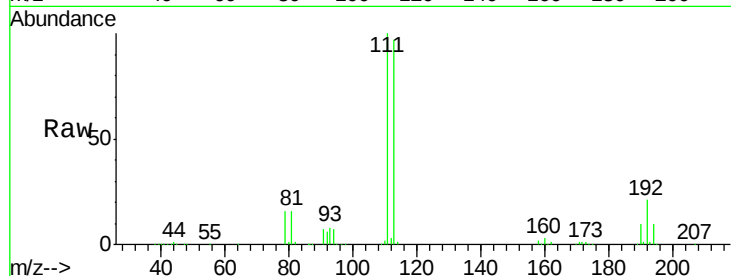




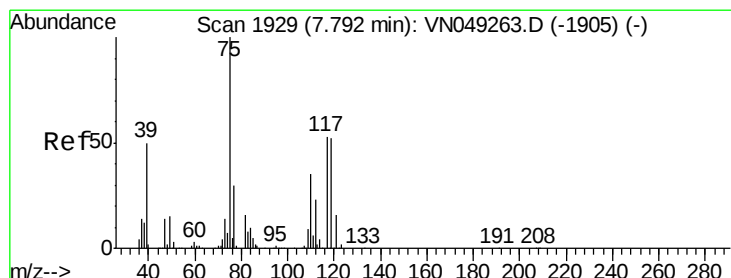
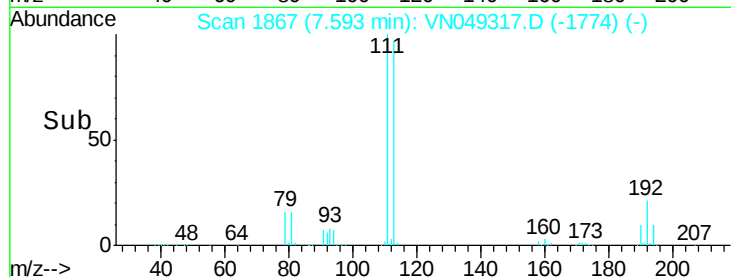
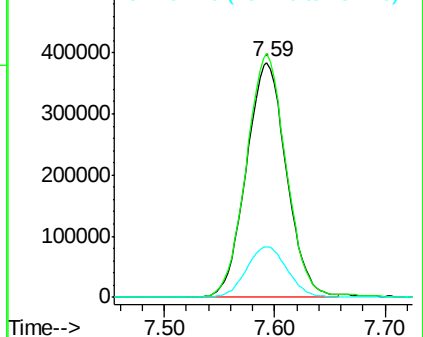
#35
 Dibromofluoromethane
 Concen: 46.31 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049317.D
 Acq: 16 Jun 2018 18:37

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:113 Resp: 968130
 Ion Ratio Lower Upper
 113 100
 111 103.8 82.4 123.6
 192 22.1 15.0 22.6

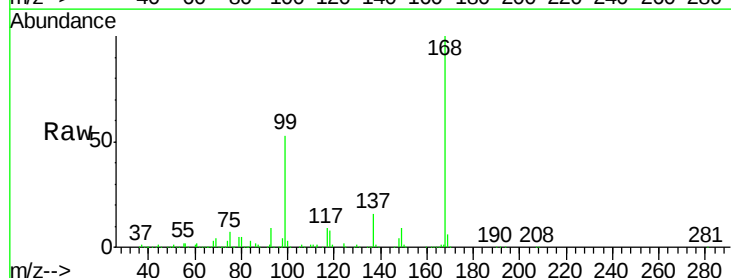


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

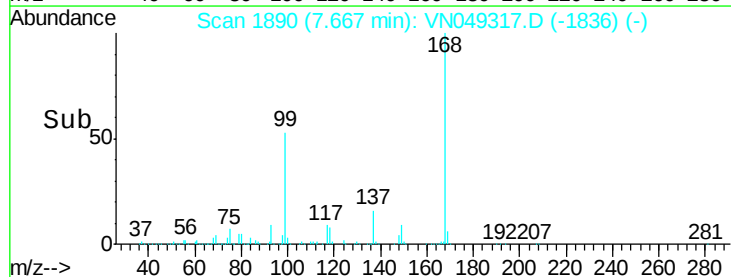
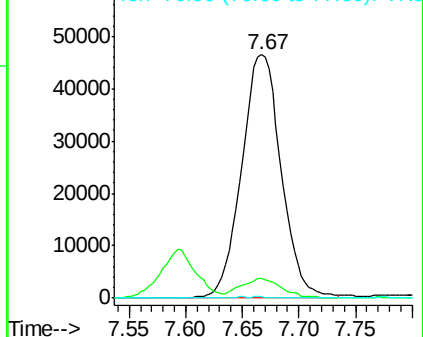


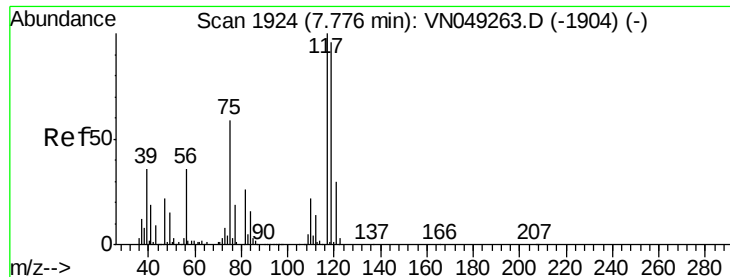
#36
 1,1-Dichloropropene
 Concen: 3.82 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049317.D
 Acq: 16 Jun 2018 18:37

Tgt Ion: 75 Resp: 113230
 Ion Ratio Lower Upper
 75 100
 110 8.5 17.0 50.9#
 77 0.2 24.4 36.6#



Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 4.84 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN049317.D

Acq: 16 Jun 2018 18:37

Instrument :

MSVOA_N

ClientSampleId :

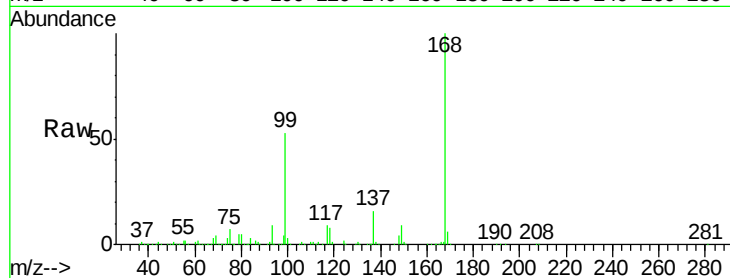
Tot Ion:117 Resp: 148314

Ion Ratio Lower Upper

117 100

119 5.4 75.6 113.4#

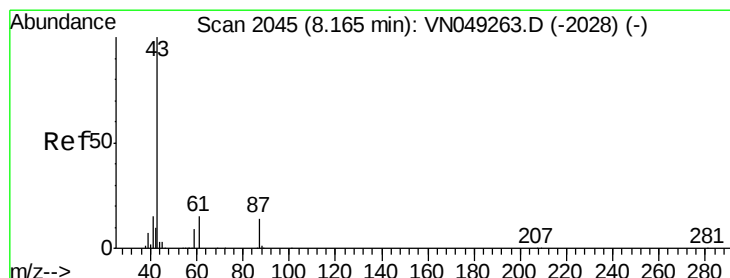
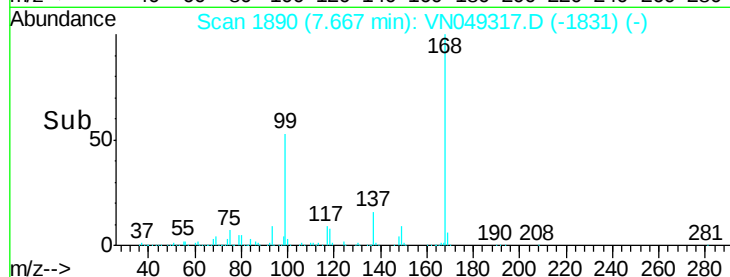
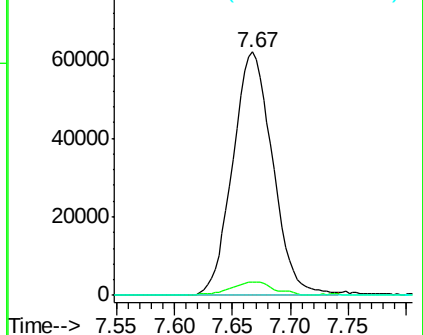
121 0.0 24.7 37.1#



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: 4.57 ug/l

RT: 8.22 min Scan# 2063

Delta R.T. 0.06 min

Lab File: VN049317.D

Acq: 16 Jun 2018 18:37

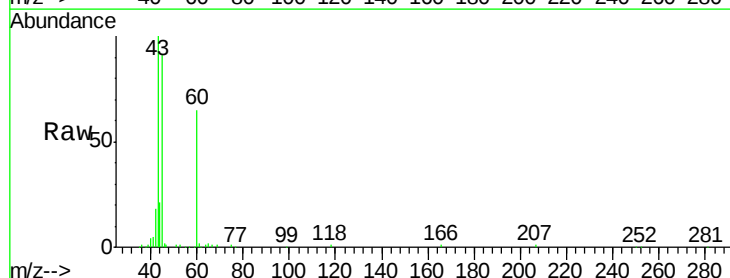
Tgt Ion: 43 Resp: 140566

Ion Ratio Lower Upper

43 100

61 0.0 14.2 21.4#

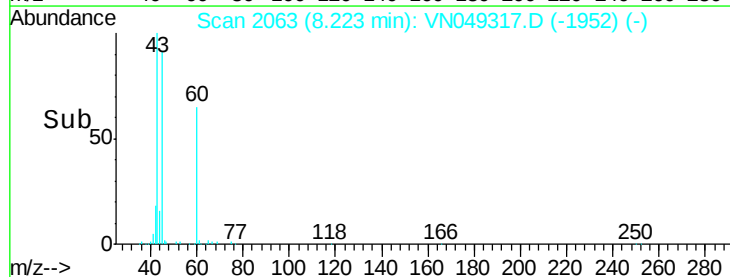
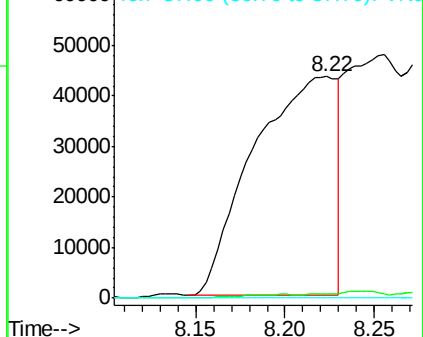
87 0.0 9.4 14.0#

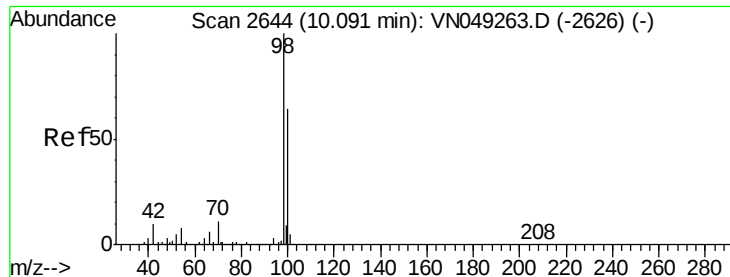


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#50

Toluene-d8

Concen: 45.47 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN049317.D

Acq: 16 Jun 2018 18:37

Instrument :

MSVOA_N

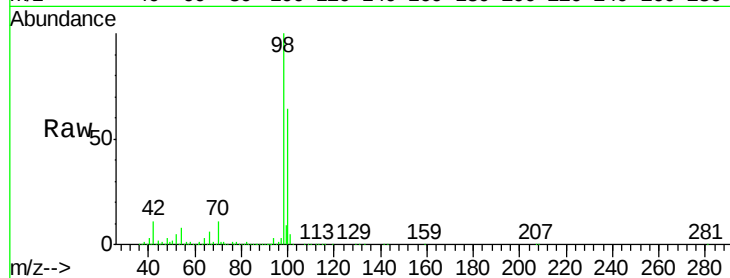
ClientSampled :

Tot Ion: 98 Resp: 3619593

Ion Ratio Lower Upper

98 100

100 63.8 49.8 74.8



Abundance Ion 98.00 (97.70 to 98.70): VN049263.D (-2626) (-)

Ion 100.00 (99.70 to 100.70): VN049263.D (-2626) (-)

10.09

2000000

1500000

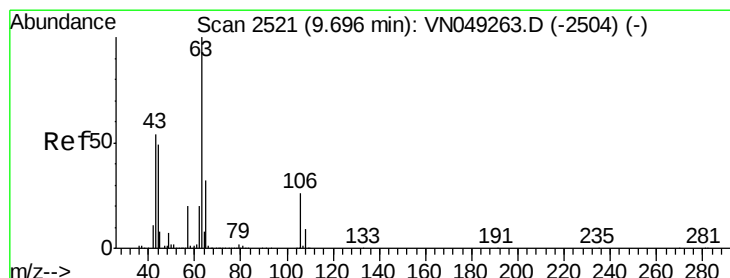
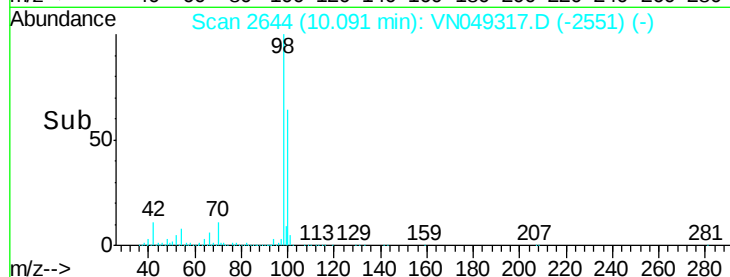
1000000

500000

0

Time-->

10.00 10.20



#58

2-Chloroethyl Vinyl ether

Concen: 14.33 ug/l

RT: 9.63 min Scan# 2502

Delta R.T. -0.06 min

Lab File: VN049317.D

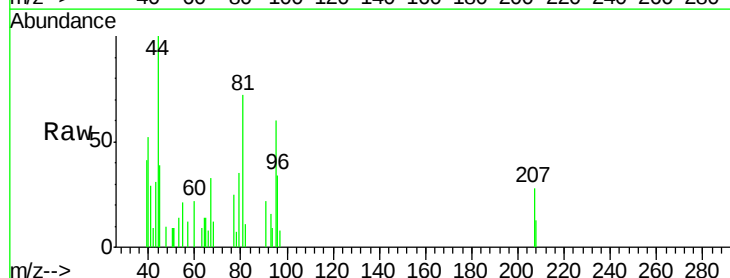
Acq: 16 Jun 2018 18:37

Tgt Ion: 63 Resp: 71

Ion Ratio Lower Upper

63 100

106 0.0 19.4 29.2#



Abundance Ion 62.90 (62.60 to 63.60): VN049263.D (-2504) (-)

Ion 105.90 (105.60 to 106.60): VN049263.D (-2504) (-)

9.63

200

150

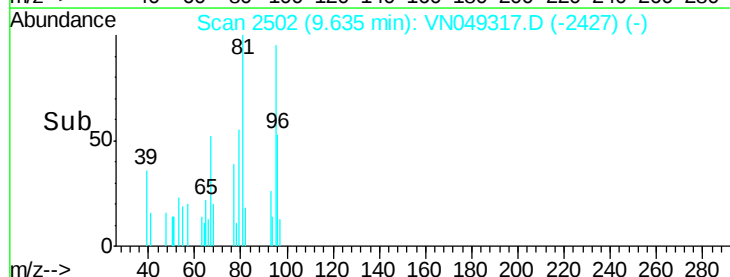
100

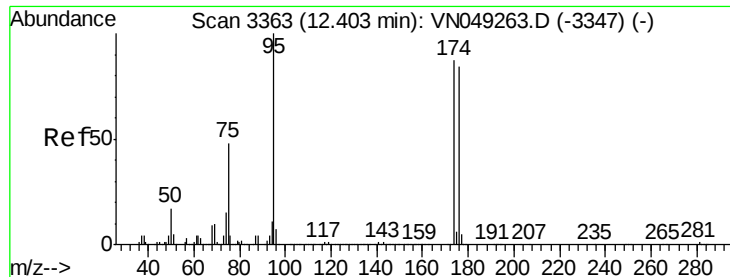
50

0

Time-->

9.62 9.63 9.64





#62

4-Bromofluorobenzene

Concen: 40.64 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049317.D

Acq: 16 Jun 2018 18:37

Instrument :

MSVOA_N

ClientSampleId :

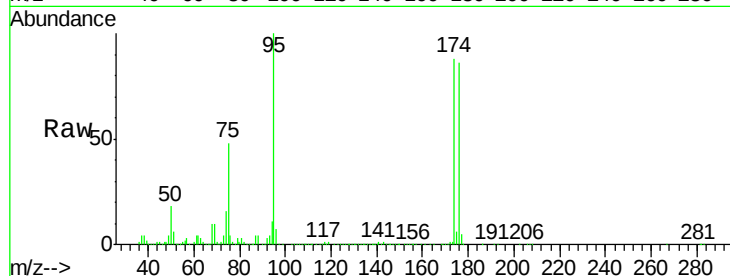
Tot Ion: 95 Resp: 1069529

Ion Ratio Lower Upper

95 100

174 89.4 0.0 165.6

176 85.8 0.0 157.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0

800000

600000

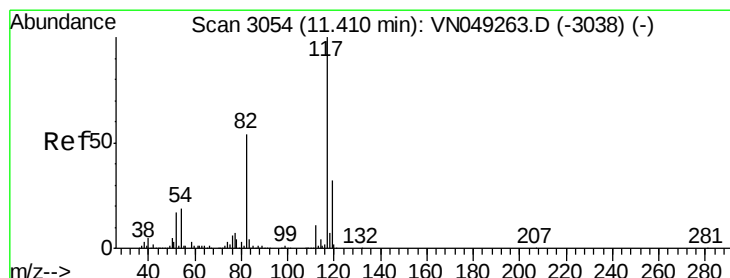
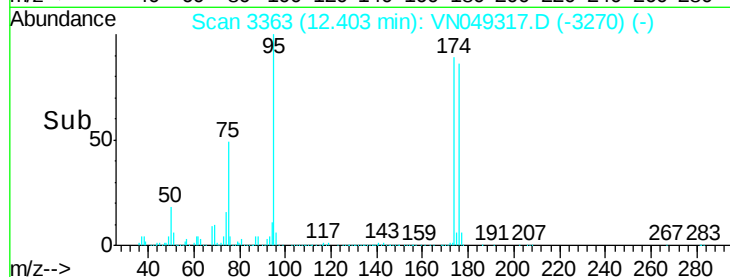
400000

200000

0

12.35 12.40 12.45

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN049317.D

Acq: 16 Jun 2018 18:37

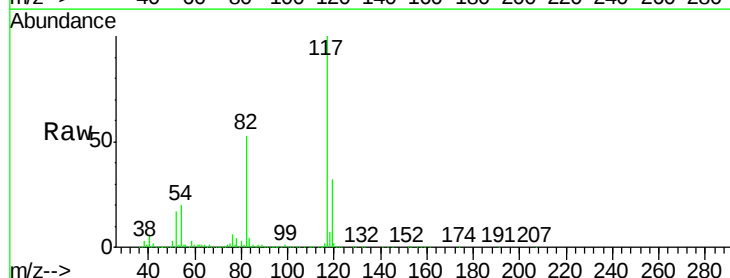
Tgt Ion: 117 Resp: 2224680

Ion Ratio Lower Upper

117 100

82 53.3 45.9 68.9

119 32.2 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0

1500000

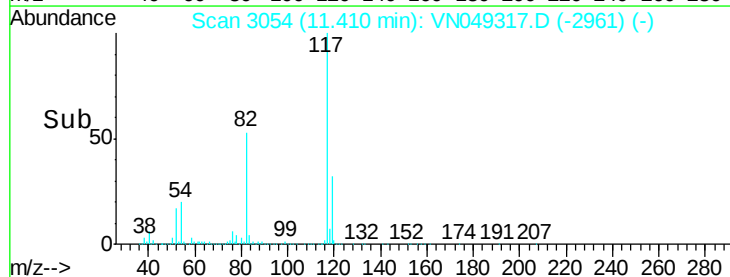
1000000

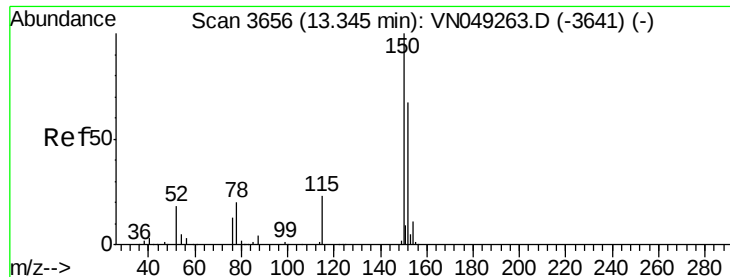
500000

0

11.30 11.40 11.50

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN049317.D

Acq: 16 Jun 2018 18:37

Instrument :

MSVOA_N

ClientSampled :

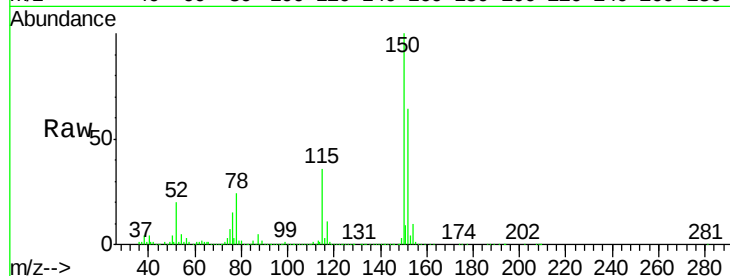
Tot Ion:152 Resp: 839988

Ion Ratio Lower Upper

152 100

115 56.8 28.7 86.1

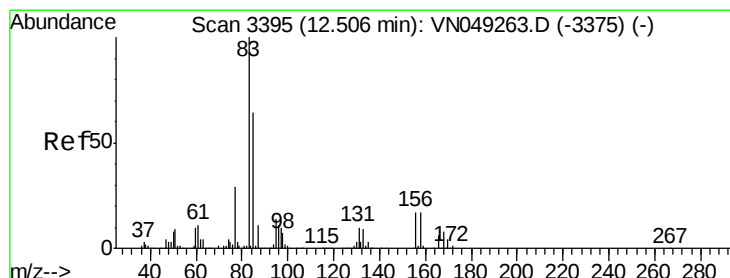
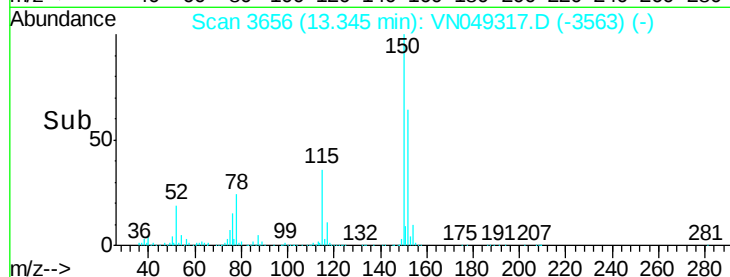
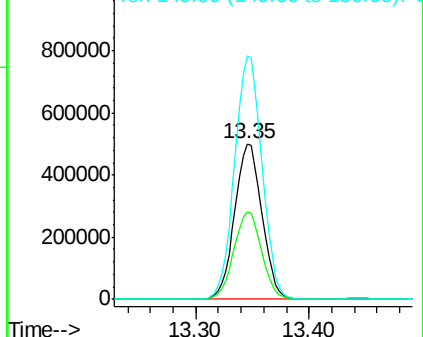
150 157.3 0.0 351.0



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: 12.50 min Scan# 3393

Delta R.T. -0.01 min

Lab File: VN049317.D

Acq: 16 Jun 2018 18:37

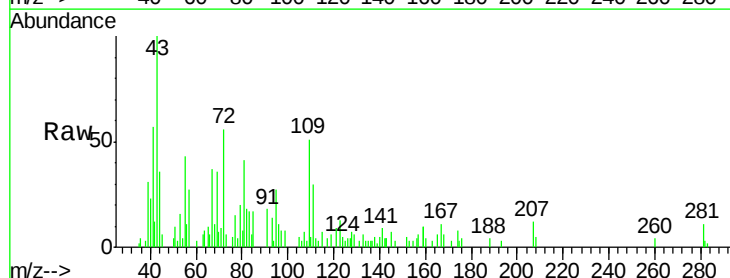
Tgt Ion: 83 Resp: 331

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

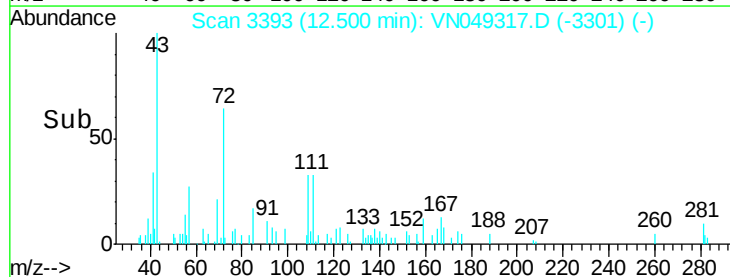
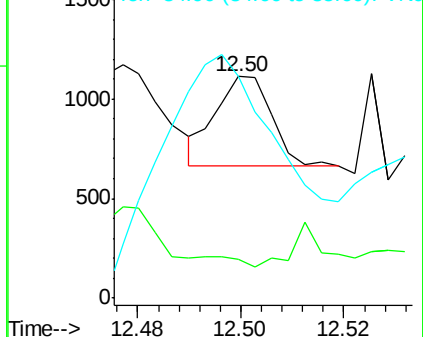
85 633.8 32.0 96.0#

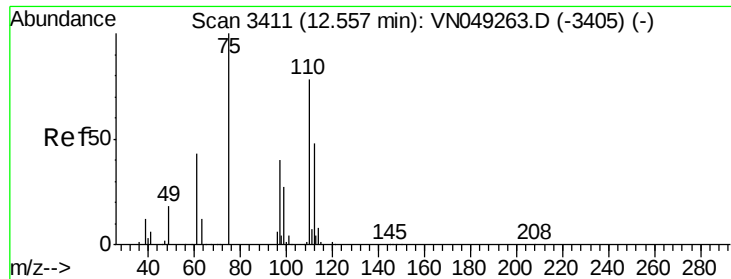


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V

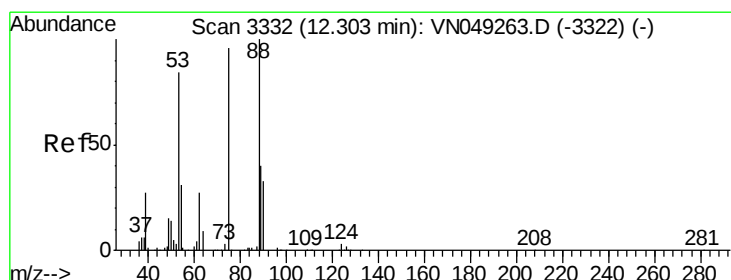
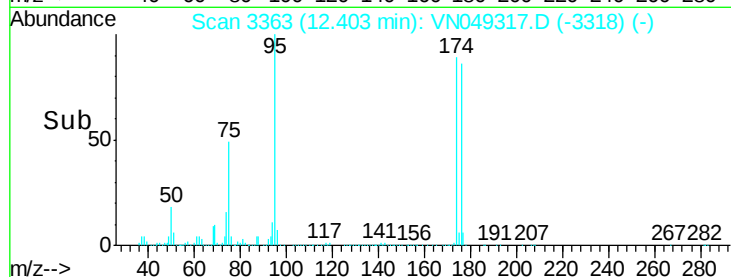
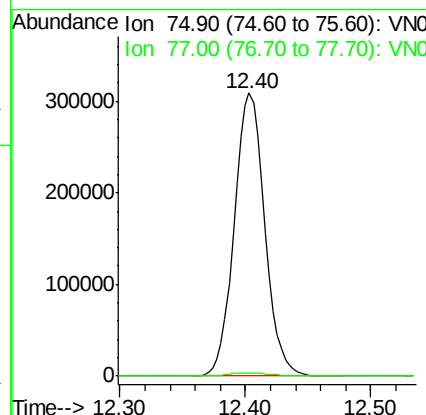
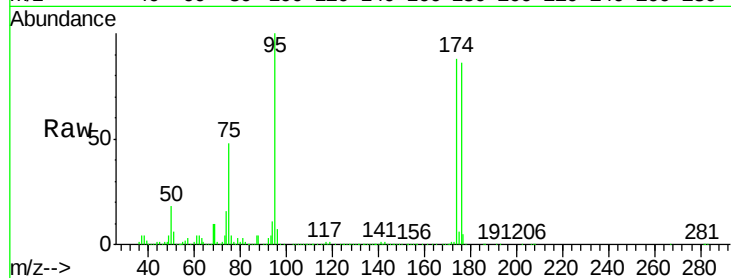




#76
 1,2,3-Trichloropropane
 Concen: 36.30 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. -0.15 min
 Lab File: VN049317.D
 Acq: 16 Jun 2018 18:37

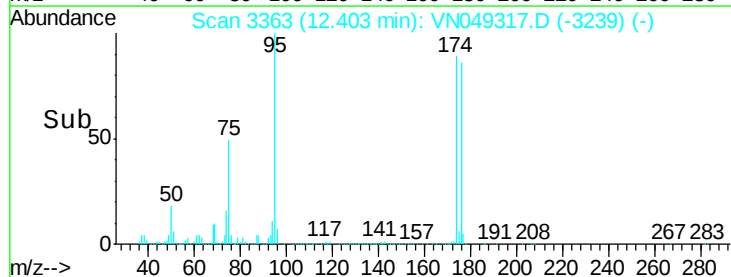
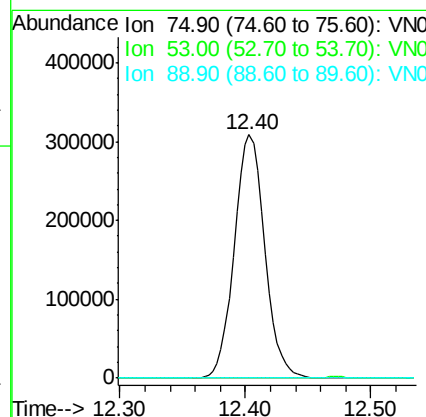
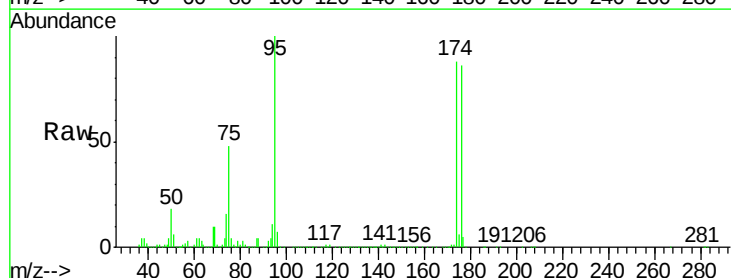
Instrument :
 MSVOA_N
 ClientSampleId :

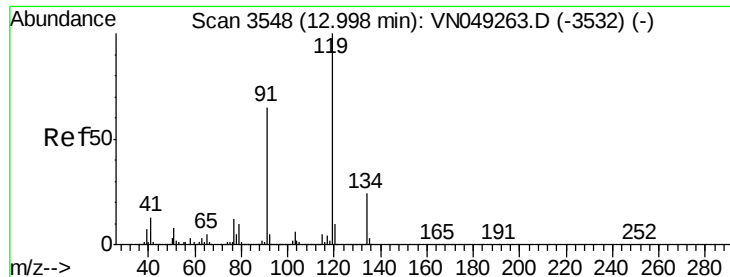
Tot Ion: 75 Resp: 520269
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 114.73 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.10 min
 Lab File: VN049317.D
 Acq: 16 Jun 2018 18:37

Tgt Ion: 75 Resp: 520269
 Ion Ratio Lower Upper
 75 100
 53 0.0 82.7 124.1#
 89 0.0 36.5 54.7#

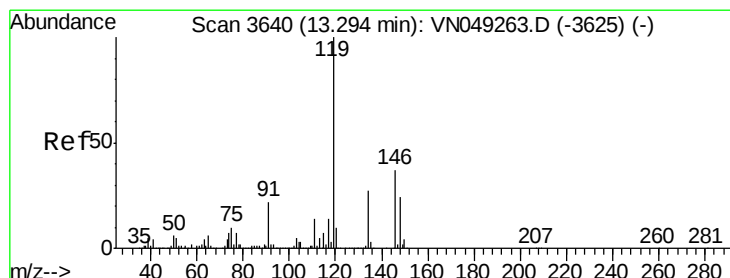
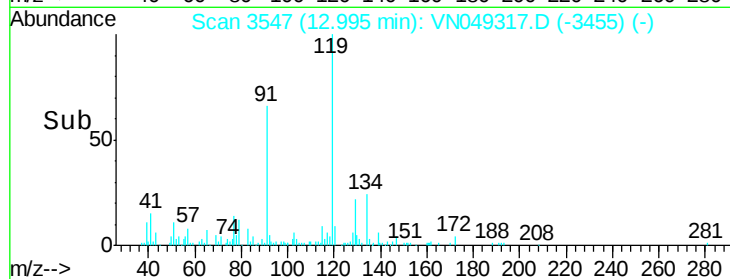
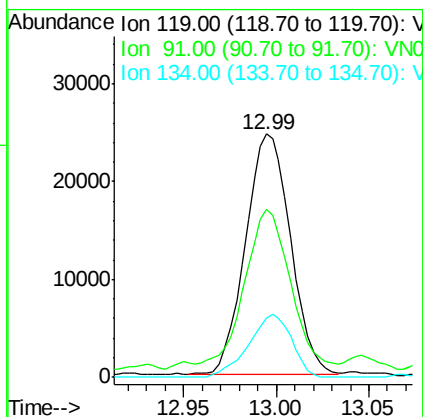
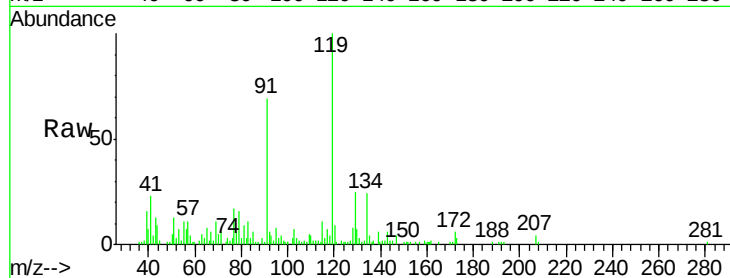




#83
tert-Butylbenzene
Concen: 0.80 ug/l
RT: 12.99 min Scan# 3547
Delta R.T. -0.00 min
Lab File: VN049317.D
Acq: 16 Jun 2018 18:37

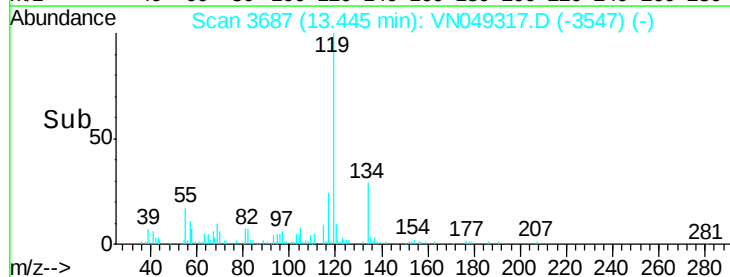
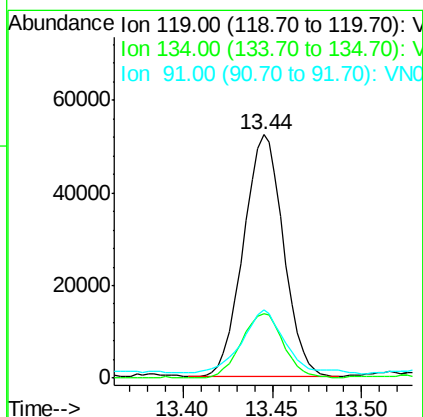
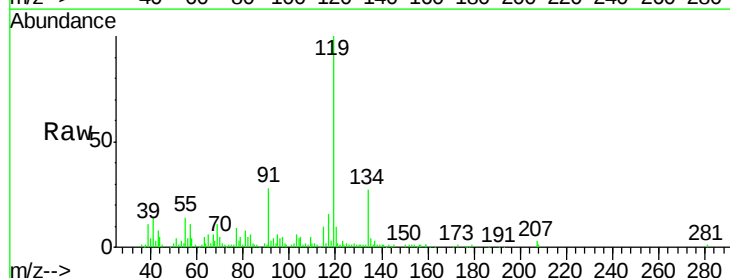
Instrument :
MSVOA_N
ClientSampleId :

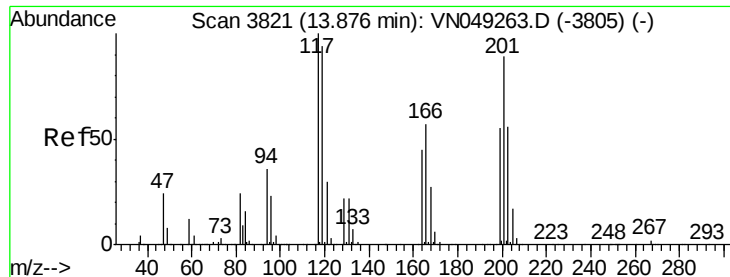
Tot Ion	Ratio	Lower	Upper
119	100		
91	64.7	33.7	101.0
134	25.1	12.9	38.6



#86
p-Isopropyltoluene
Concen: 1.44 ug/l
RT: 13.44 min Scan# 3687
Delta R.T. 0.15 min
Lab File: VN049317.D
Acq: 16 Jun 2018 18:37

Tgt Ion	Ratio	Lower	Upper
119	100		
134	28.2	12.9	38.6
91	28.3	12.1	36.3





#90

Hexachloroethane

Concen: Below Cal

RT: 13.89 min Scan# 3824

Delta R.T. 0.01 min

Lab File: VN049317.D

Acq: 16 Jun 2018 18:37

Instrument :

MSVOA_N

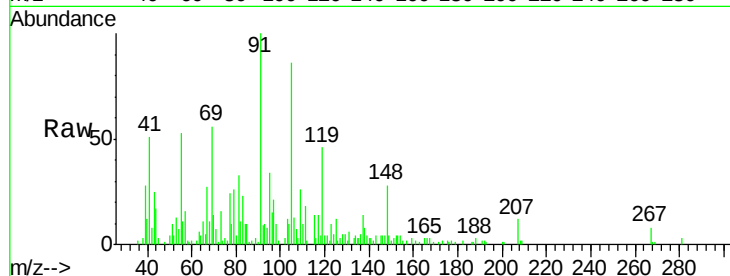
ClientSampled :

Tot Ion:117 Resp: 3843

Ion Ratio Lower Upper

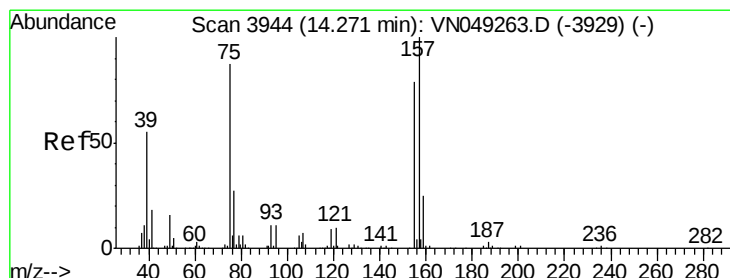
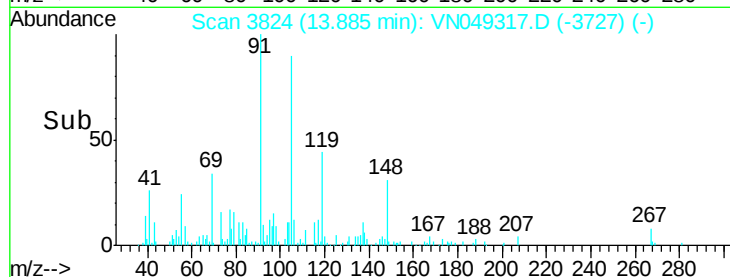
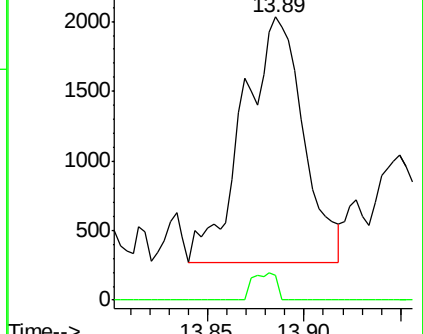
117 100

201 4.4 40.1 120.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.34 ug/l

RT: 14.22 min Scan# 3927

Delta R.T. -0.05 min

Lab File: VN049317.D

Acq: 16 Jun 2018 18:37

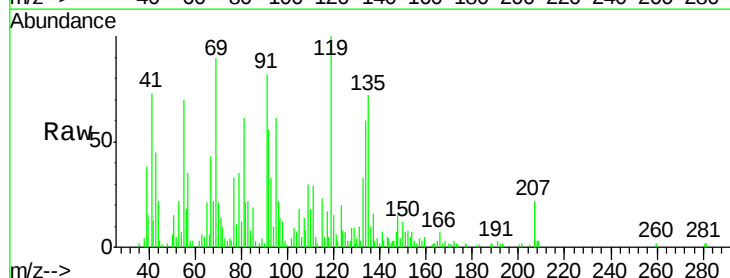
Tgt Ion: 75 Resp: 871

Ion Ratio Lower Upper

75 100

155 44.7 38.8 116.3

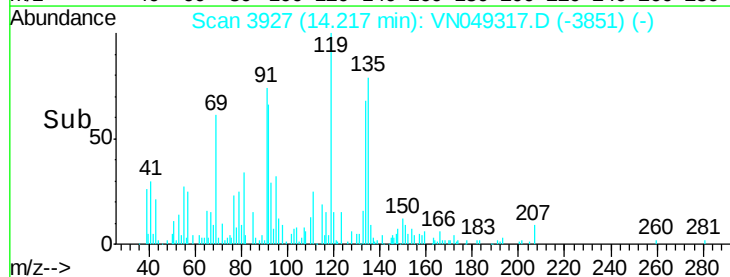
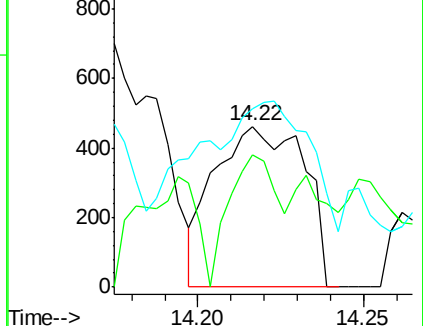
157 96.2 51.0 153.1

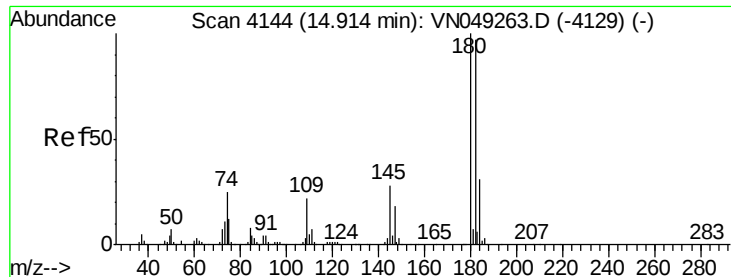


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

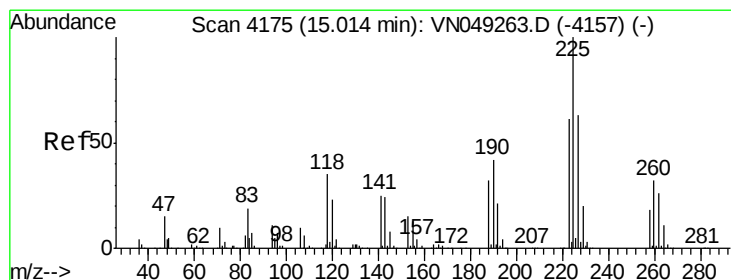
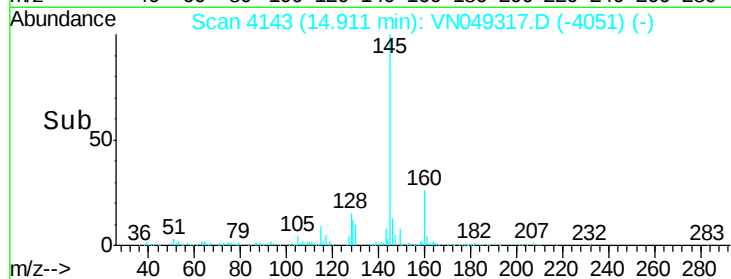
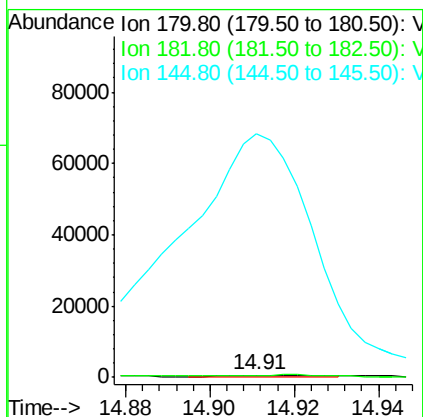
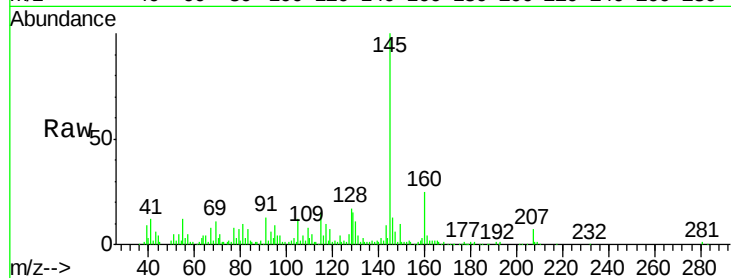




#93
 1,2,4-Trichlorobenzene
 Concen: 4.81 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. -0.00 min
 Lab File: VN049317.D
 Acq: 16 Jun 2018 18:37

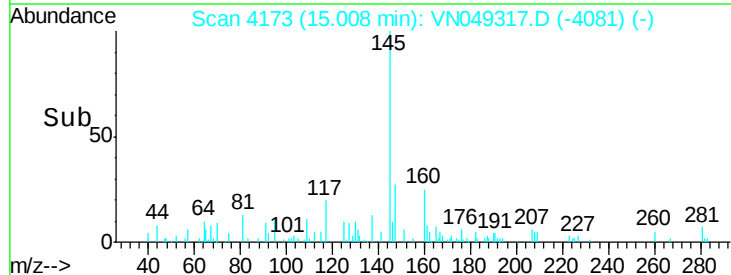
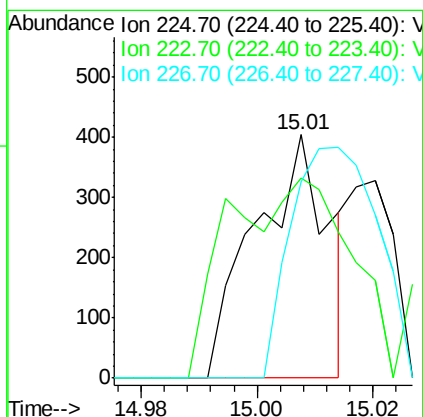
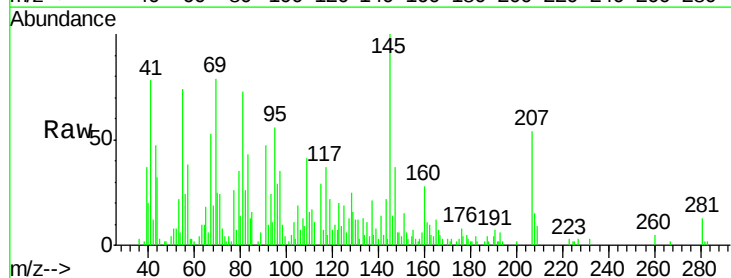
Instrument :
 MSVOA_N
 ClientSampled :

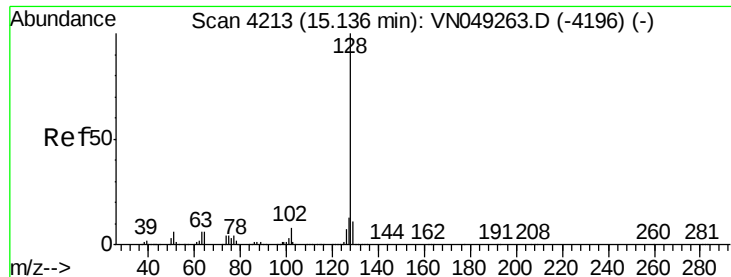
Tot Ion:180 Resp: 1027
 Ion Ratio Lower Upper
 180 100
 182 85.7 46.9 140.8
 145 15738.0 14.7 44.1#



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4173
 Delta R.T. -0.01 min
 Lab File: VN049317.D
 Acq: 16 Jun 2018 18:37

Tgt Ion:225 Resp: 354
 Ion Ratio Lower Upper
 225 100
 223 137.3 32.1 96.3#
 227 113.6 31.8 95.3#





#95

Naphthalene

Concen: 2.41 ug/l

RT: 15.10 min Scan# 4201

Delta R.T. -0.04 min

Lab File: VN049317.D

Acq: 16 Jun 2018 18:37

Instrument :

MSVOA_N

ClientSampled :

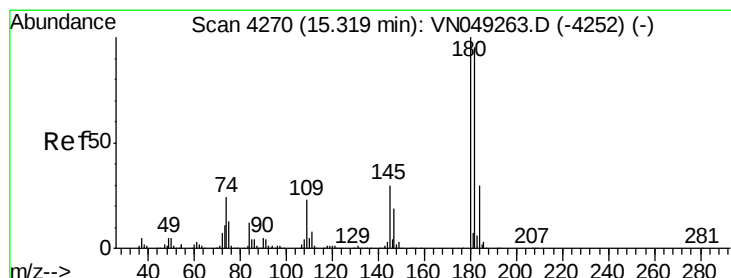
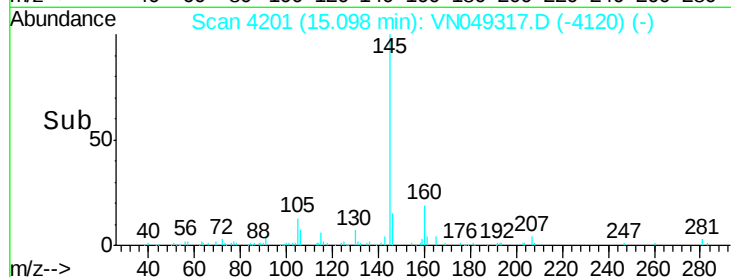
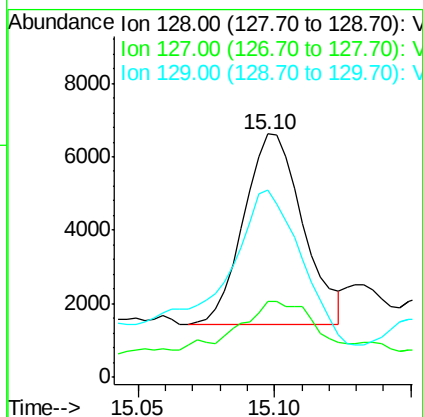
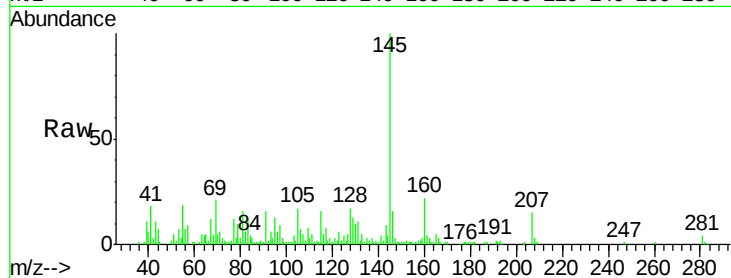
Tot Ion:128 Resp: 7738

Ion Ratio Lower Upper

128 100

127 32.7 10.6 16.0#

129 133.6 8.5 12.7#



#96

1,2,3-Trichlorobenzene

Concen: 3.49 ug/l

RT: 15.31 min Scan# 4266

Delta R.T. -0.01 min

Lab File: VN049317.D

Acq: 16 Jun 2018 18:37

Tgt Ion:180 Resp: 525

Ion Ratio Lower Upper

180 100

182 197.9 47.3 141.8#

145 9228.2 15.6 46.7#

