

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062618\
 Data File : VN049561.D
 Acq On : 26 Jun 2018 18:57
 Operator : MD\SY
 Sample : PB110584ZHE#08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 27 01:06:25 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	1266708	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1998552	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1678000	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	682049	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	812700	48.37	ug/l	0.00
Spiked Amount			Recovery	=	96.74%	
35) Dibromofluoromethane	7.59	113	687600	42.53	ug/l	0.00
Spiked Amount			Recovery	=	85.06%	
50) Toluene-d8	10.09	98	2701346	43.88	ug/l	0.00
Spiked Amount			Recovery	=	87.76%	
62) 4-Bromofluorobenzene	12.40	95	805685	39.58	ug/l	0.00
Spiked Amount			Recovery	=	79.16%	

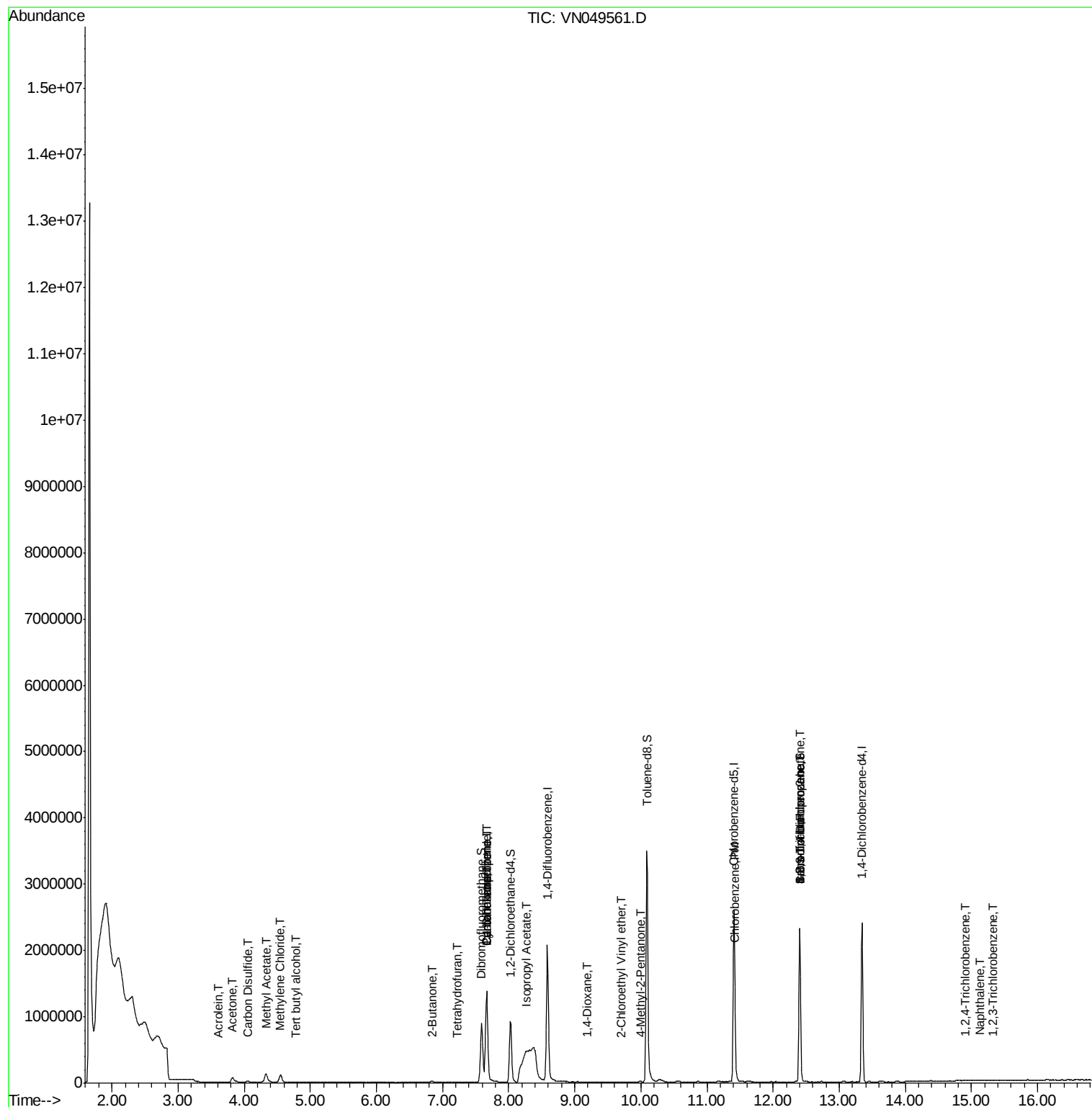
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.78	59	304	0.31	ug/l	# 70
13) Acrolein	3.61	56	3307	3.20	ug/l	93
16) Acetone	3.82	43	172434	42.27	ug/l	91
17) Carbon Disulfide	4.05	76	14048	0.31	ug/l	96
18) Methyl Acetate	4.33	43	242030	19.46	ug/l	94
20) Methylene Chloride	4.55	84	77256	4.53	ug/l	86
25) 2-Butanone	6.84	43	11576	2.11	ug/l	96
29) Tetrahydrofuran	7.23	42	2489	0.71	ug/l	# 60
31) Cyclohexane	7.66	56	22461	0.73	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	84419	3.69	ug/l	# 49
38) Carbon Tetrachloride	7.67	117	110561	4.66	ug/l	# 17
43) Isopropyl Acetate	8.27	43	842085	35.39	ug/l	# 64
49) 1,4-Dioxane	9.20	88	237	1.53	ug/l	# 1
51) 4-Methyl-2-Pentanone	9.99	43	6510	0.52	ug/l	# 79
58) 2-Chloroethyl Vinyl ether	9.70	63	72	14.34	ug/l	# 51
65) Chlorobenzene	11.43	112	16320	0.38	ug/l	98
71) Bromoform	12.40	173	4721	0.45	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.51	83	30	Below	Cal	# 26
76) 1,2,3-Trichloropropane	12.40	75	386432	33.21	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	386432	104.95	ug/l	# 9
90) Hexachloroethane	13.89	117	91	Below	Cal	# 9
93) 1,2,4-Trichlorobenzene	14.91	180	958	4.82	ug/l	81
94) Hexachlorobutadiene	15.02	225	295	Below	Cal	# 51
95) Naphthalene	15.13	128	5238	2.36	ug/l	# 90
96) 1,2,3-Trichlorobenzene	15.32	180	880	3.53	ug/l	# 91

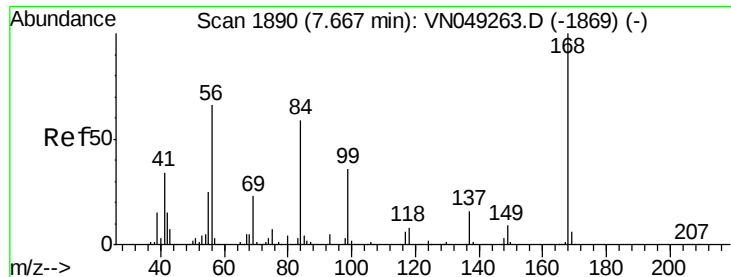
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN049561.D

Acq: 26 Jun 2018 18:57

Instrument :

MSVOA_N

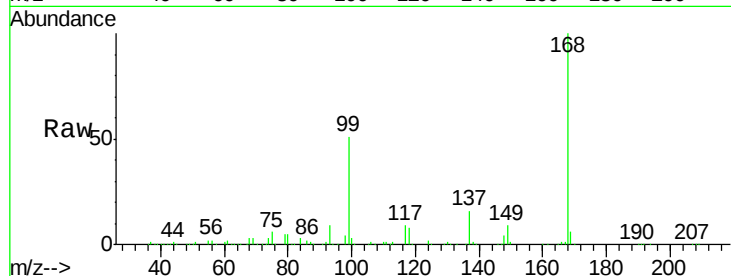
ClientSampleId :

Tot Ion:168 Resp: 1266708

Ion Ratio Lower Upper

168 100

99 50.9 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

500000

400000

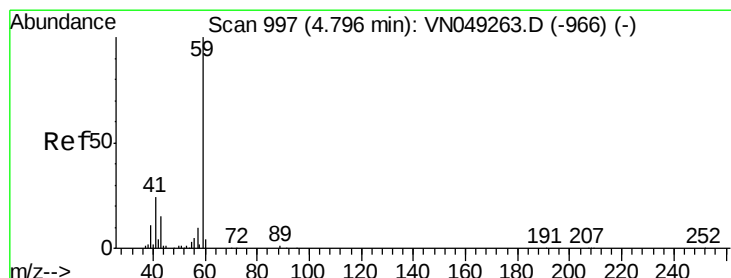
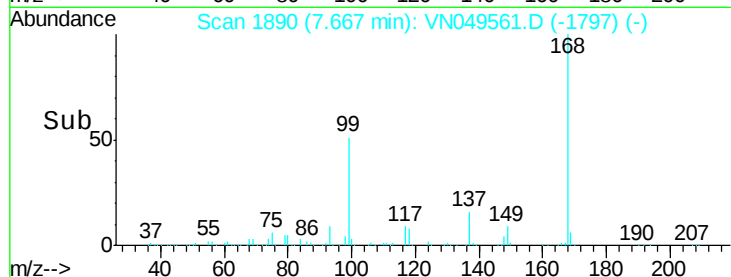
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.31 ug/l

RT: 4.78 min Scan# 992

Delta R.T. -0.02 min

Lab File: VN049561.D

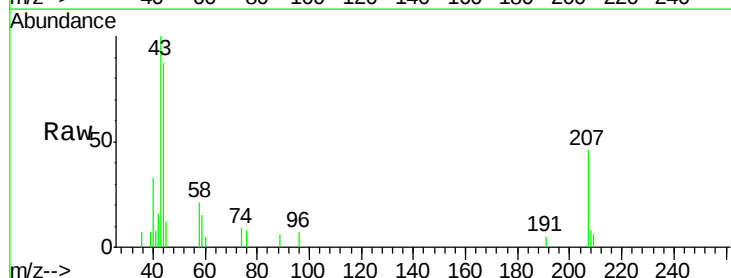
Acq: 26 Jun 2018 18:57

Tgt Ion: 59 Resp: 304

Ion Ratio Lower Upper

59 100

57 22.7 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.78

600

500

400

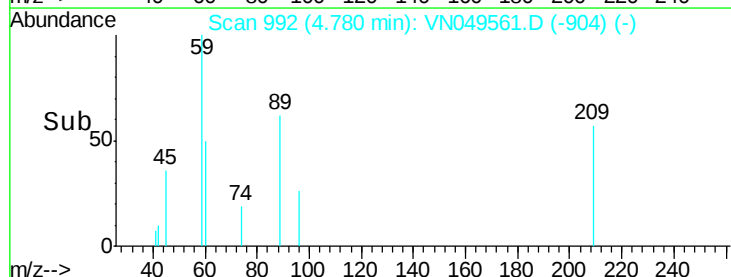
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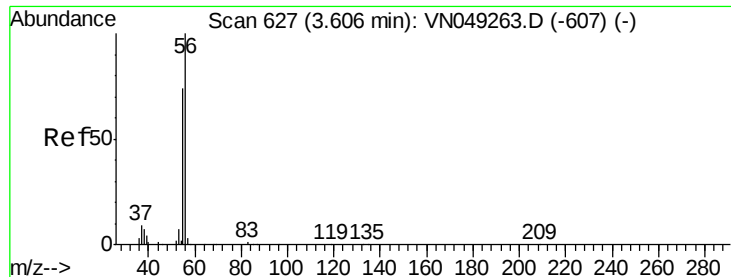
200

100

0

Time-->





#13

Acrolein

Concen: 3.20 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN049561.D

Acq: 26 Jun 2018 18:57

Instrument :

MSVOA_N

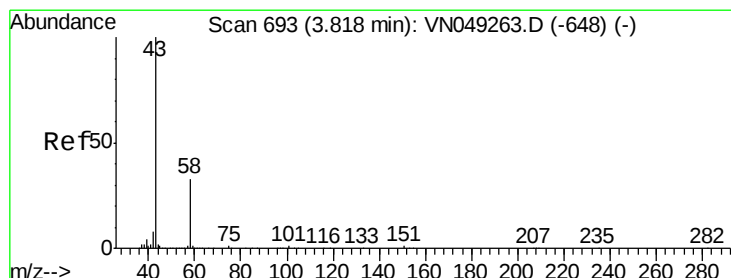
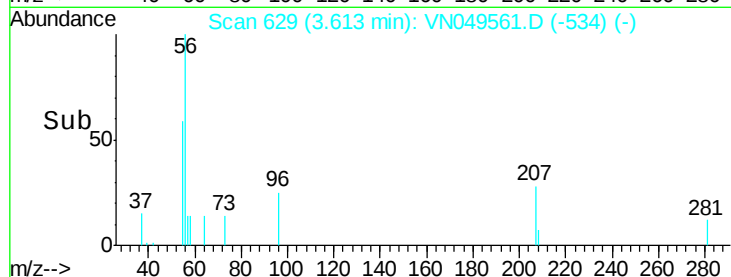
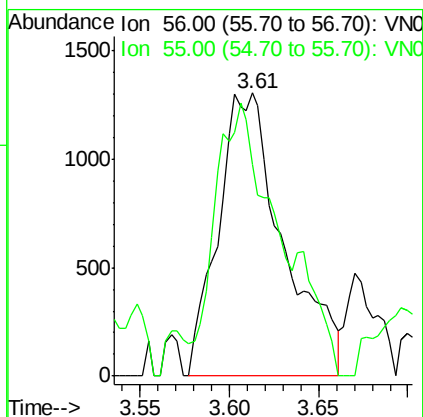
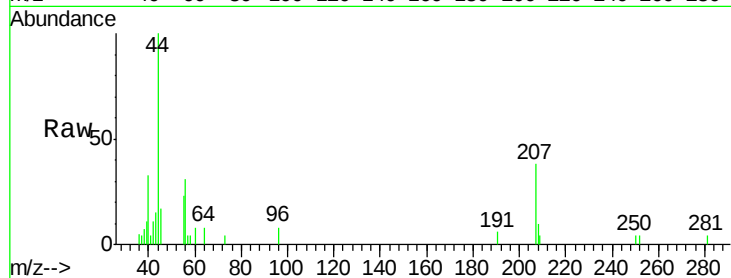
ClientSampled :

Tot Ion: 56 Resp: 3307

Ion Ratio Lower Upper

56 100

55 65.8 57.1 85.7



#16

Acetone

Concen: 42.27 ug/l

RT: 3.82 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN049561.D

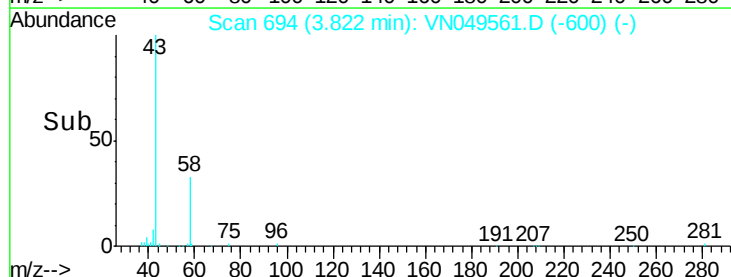
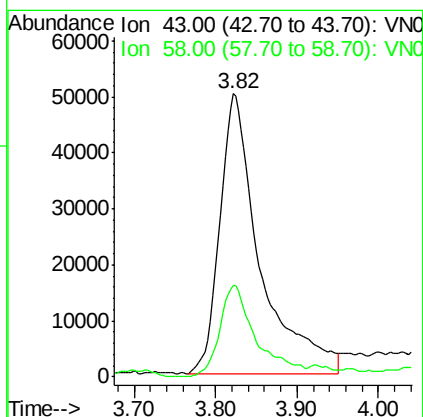
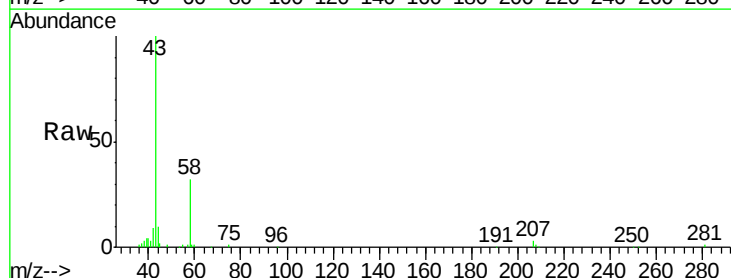
Acq: 26 Jun 2018 18:57

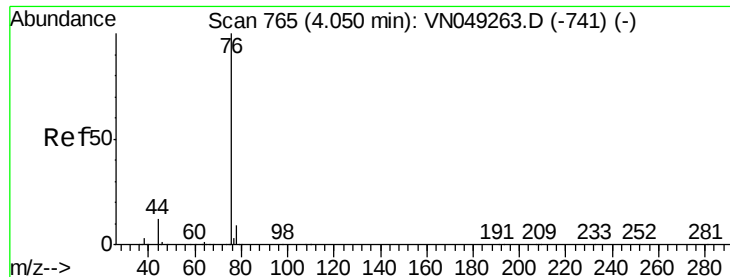
Tgt Ion: 43 Resp: 172434

Ion Ratio Lower Upper

43 100

58 32.6 22.4 33.6

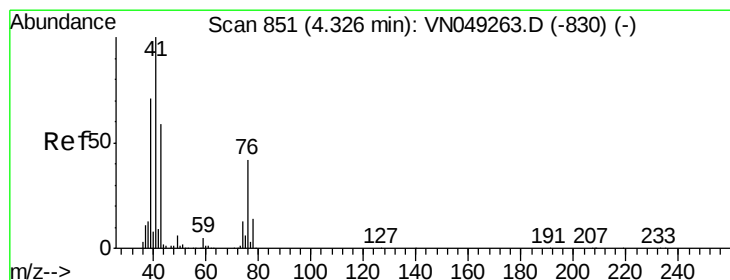
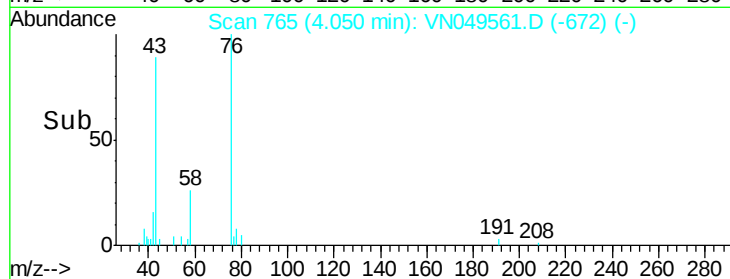
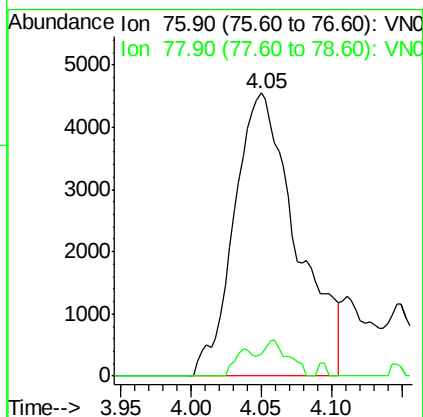
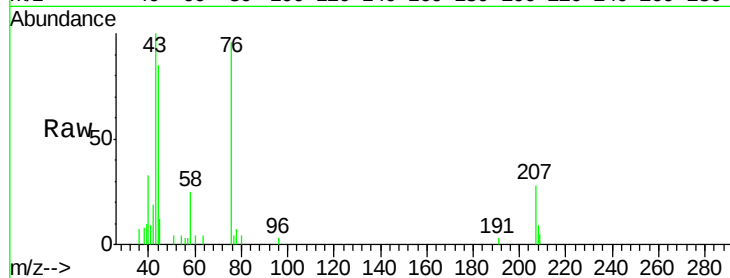




#17
Carbon Disulfide
Concen: 0.31 ug/l
RT: 4.05 min Scan# 765
Delta R.T. 0.00 min
Lab File: VN049561.D
Acq: 26 Jun 2018 18:57

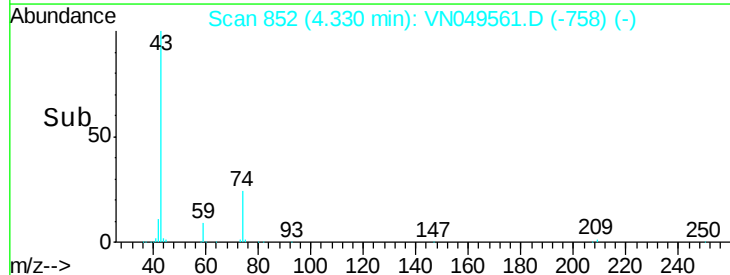
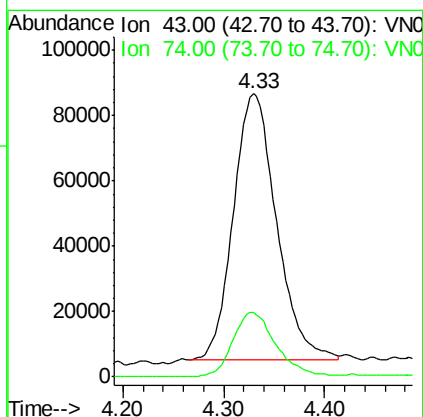
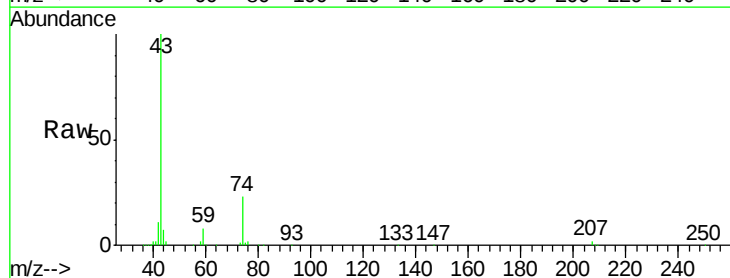
Instrument :
MSVOA_N
ClientSampleId :

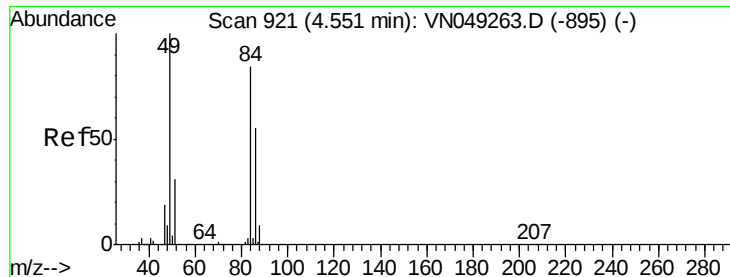
Tot Ion: 76 Resp: 14048
Ion Ratio Lower Upper
76 100
78 7.7 7.4 11.0



#18
Methyl Acetate
Concen: 19.46 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN049561.D
Acq: 26 Jun 2018 18:57

Tgt Ion: 43 Resp: 242030
Ion Ratio Lower Upper
43 100
74 24.6 17.4 26.0

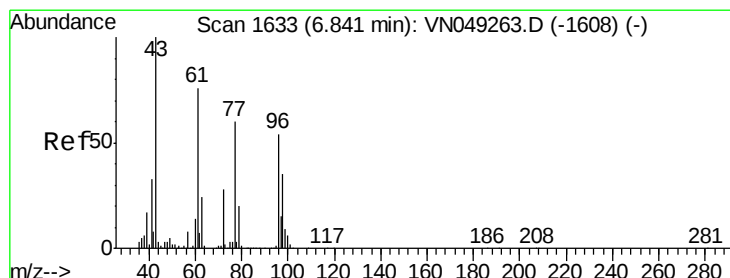
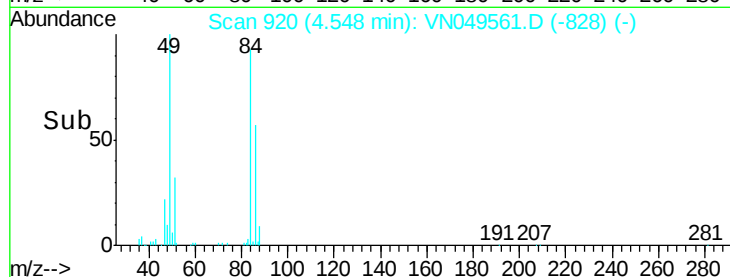
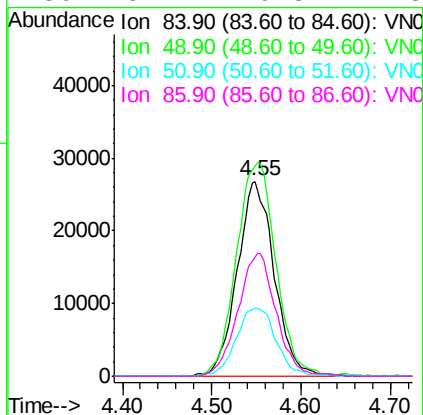
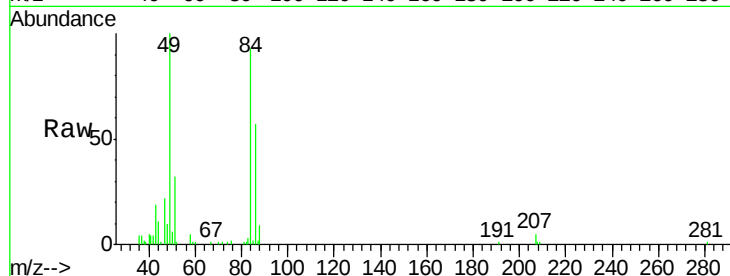




#20
Methvlene Chloride
Concen: 4.53 ug/l
RT: 4.55 min Scan# 920
Delta R.T. -0.00 min
Lab File: VN049561.D
Acq: 26 Jun 2018 18:57

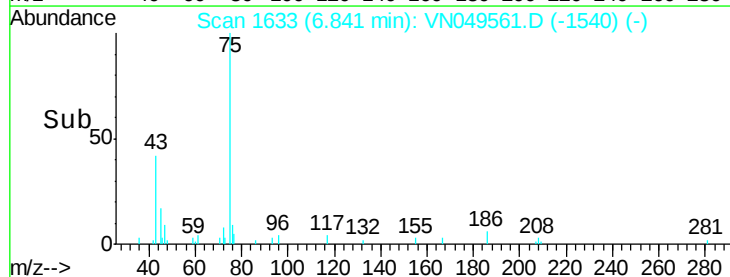
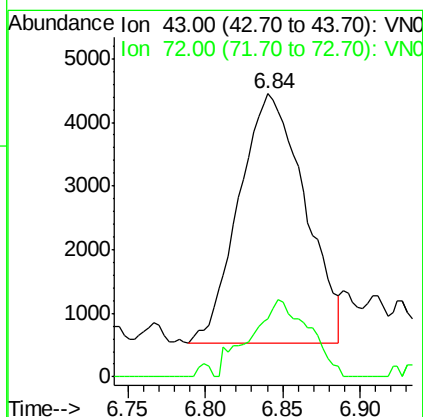
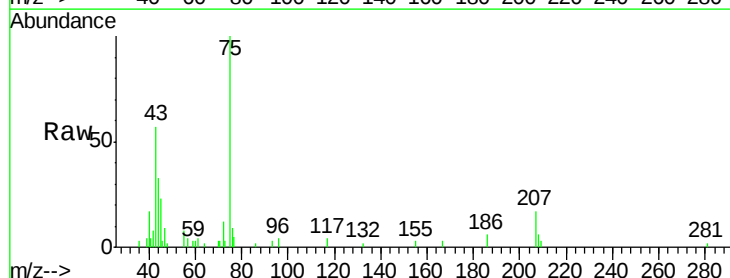
Instrument :
MSVOA_N
ClientSampleId :

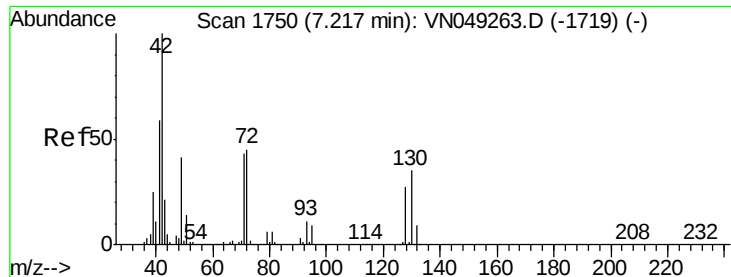
Tot Ion: 84 Resp: 77256
Ion Ratio Lower Upper
84 100
49 107.9 106.9 160.3
51 35.0 32.7 49.1
86 61.2 49.8 74.8



#25
2-Butanone
Concen: 2.11 ug/l
RT: 6.84 min Scan# 1633
Delta R.T. 0.00 min
Lab File: VN049561.D
Acq: 26 Jun 2018 18:57

Tgt Ion: 43 Resp: 11576
Ion Ratio Lower Upper
43 100
72 23.2 20.2 30.2

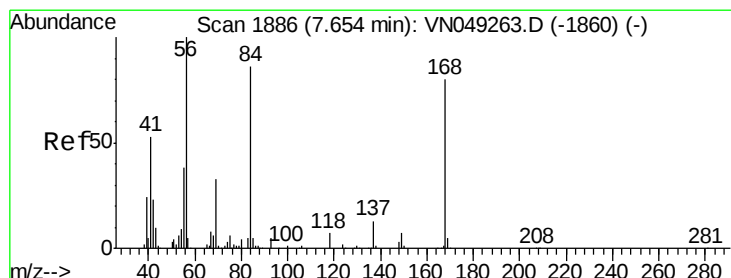
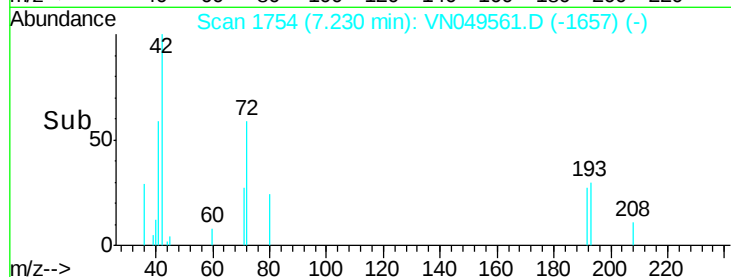
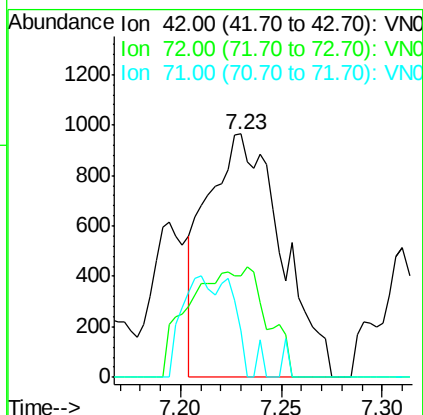
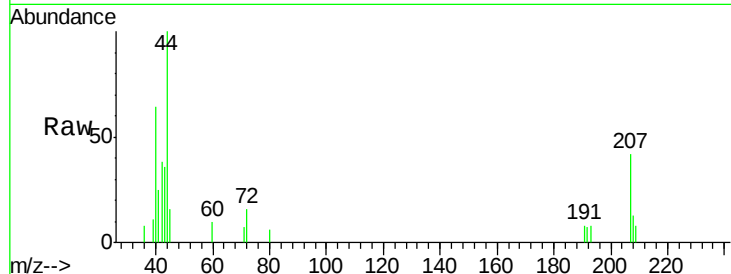




#29
Tetrahydrofuran
Concen: 0.71 ug/l
RT: 7.23 min Scan# 1754
Delta R.T. 0.01 min
Lab File: VN049561.D
Acq: 26 Jun 2018 18:57

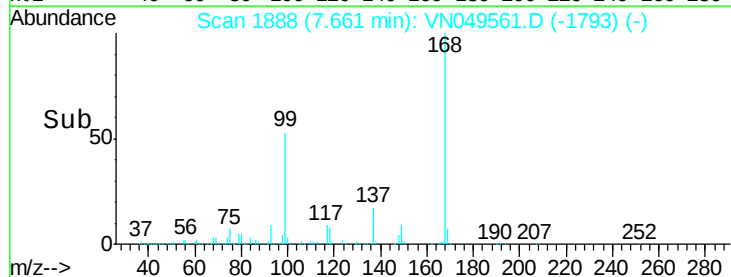
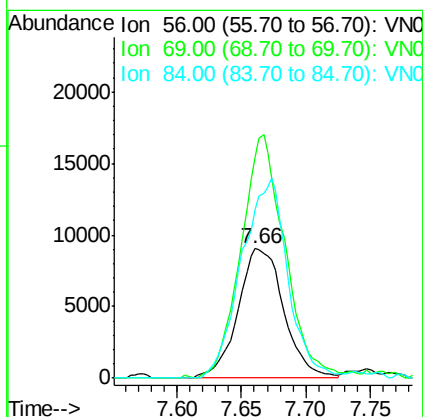
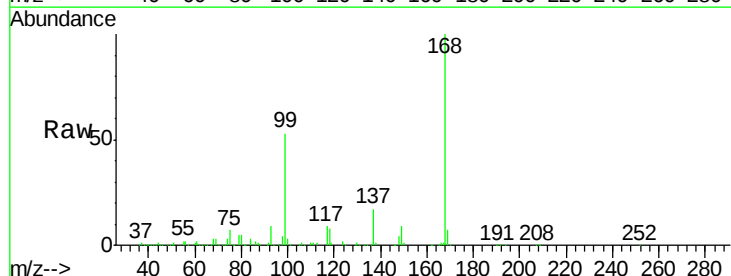
Instrument :
MSVOA_N
ClientSampleId :

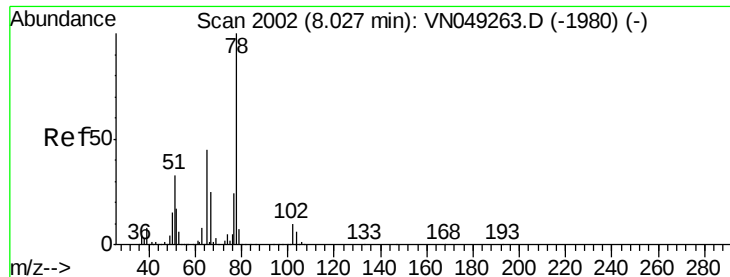
Tot Ion: 42 Resp: 2489
Ion Ratio Lower Upper
42 100
72 28.3 32.2 48.4#
71 1.2 30.5 45.7#



#31
Cyclohexane
Concen: 0.73 ug/l
RT: 7.66 min Scan# 1888
Delta R.T. 0.01 min
Lab File: VN049561.D
Acq: 26 Jun 2018 18:57

Tgt Ion: 56 Resp: 22461
Ion Ratio Lower Upper
56 100
69 169.1 25.0 37.4#
84 129.4 64.6 96.8#

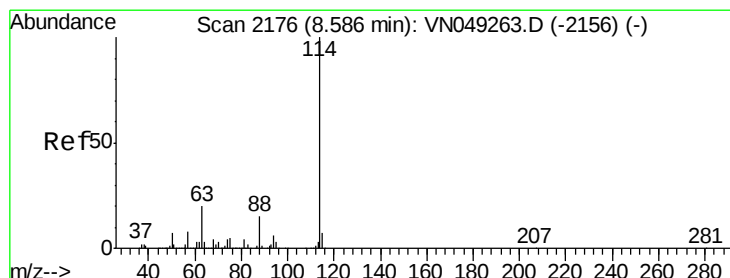
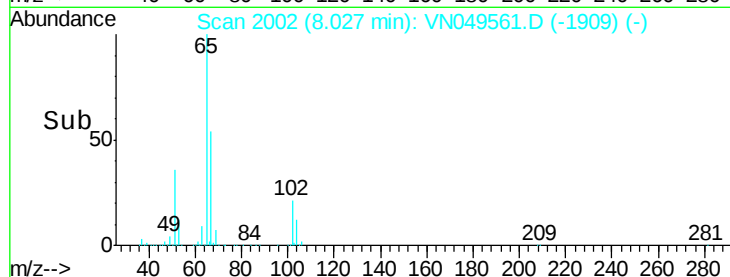
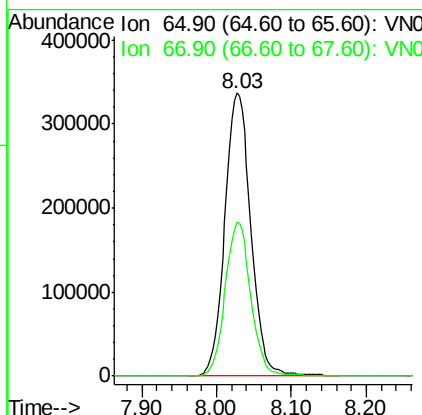
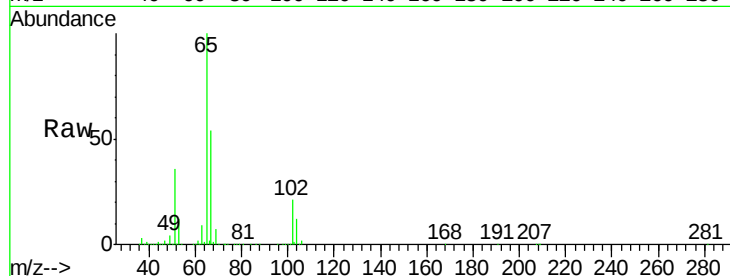




#33
 1,2-Dichloroethane-d4
 Concen: 48.37 ug/l
 RT: 8.03 min Scan# 2002
 Delta R.T. 0.00 min
 Lab File: VN049561.D
 Acq: 26 Jun 2018 18:57

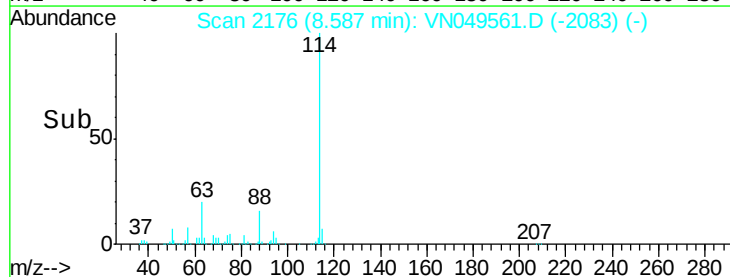
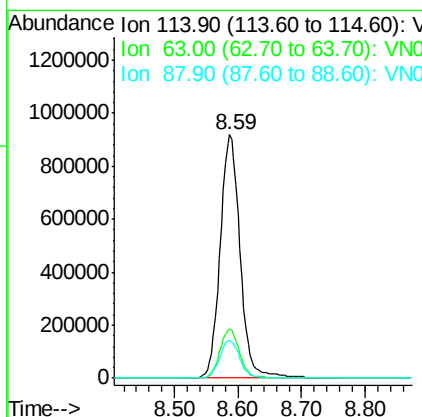
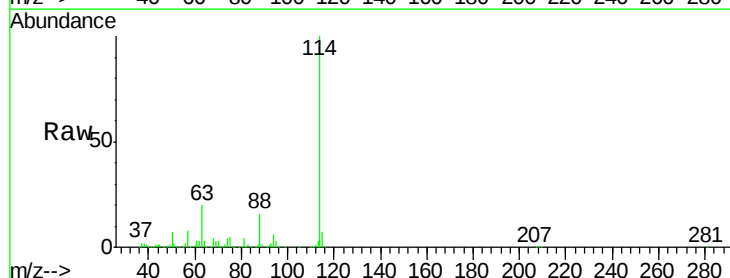
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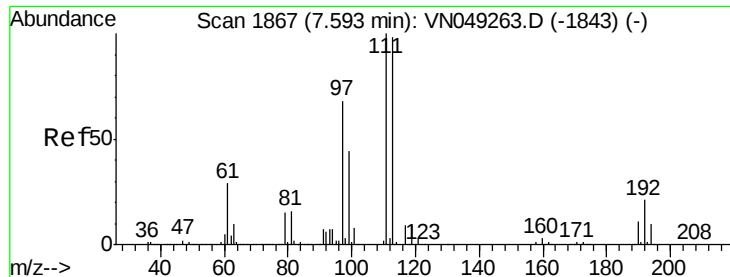
Tot Ion: 65 Resp: 812700
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN049561.D
 Acq: 26 Jun 2018 18:57

Tgt Ion: 114 Resp: 1998552
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 44.4
 88 15.6 0.0 31.4





#35

Dibromofluoromethane

Concen: 42.53 ug/l

RT: 7.59 min Scan# 1866

Delta R.T. -0.00 min

Lab File: VN049561.D

Acq: 26 Jun 2018 18:57

Instrument :
MSVOA_N
ClientSampleId :

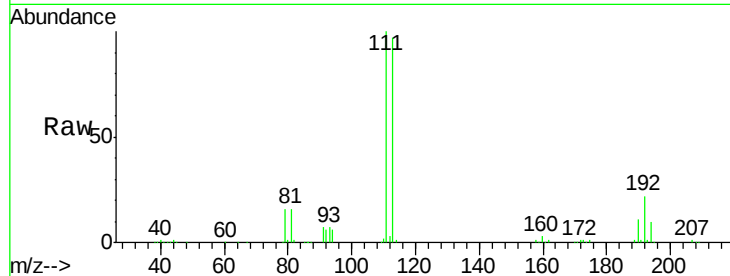
Tot Ion:113 Resp: 687600

Ion Ratio Lower Upper

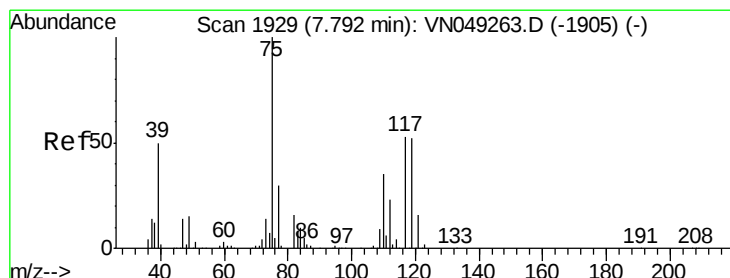
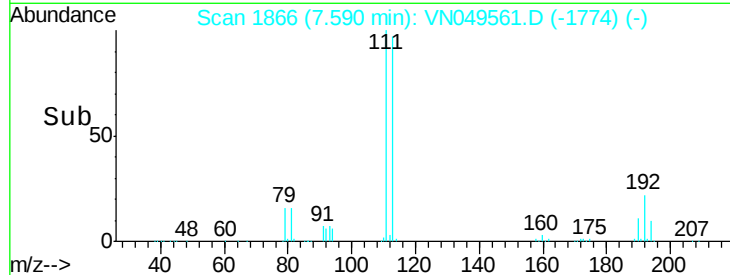
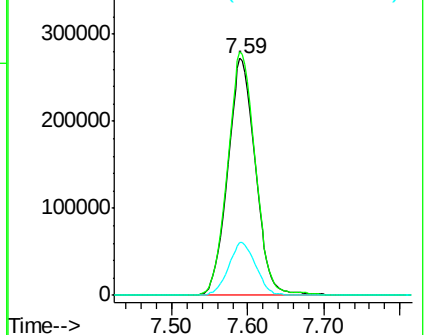
113 100

111 103.1 82.4 123.6

192 22.2 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: 3.69 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN049561.D

Acq: 26 Jun 2018 18:57

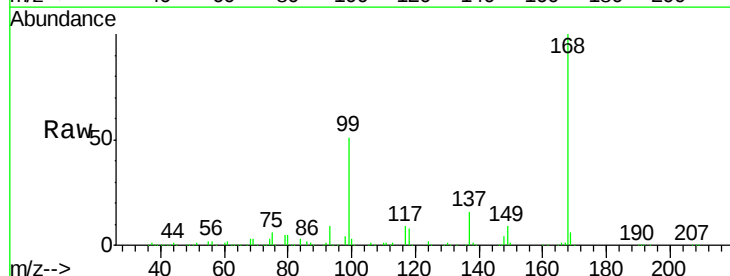
Tgt Ion: 75 Resp: 84419

Ion Ratio Lower Upper

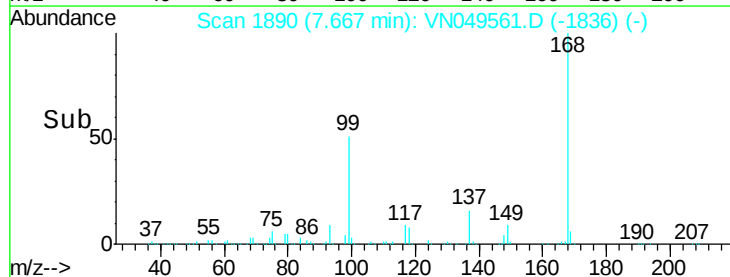
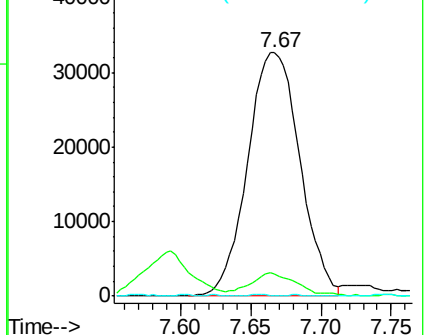
75 100

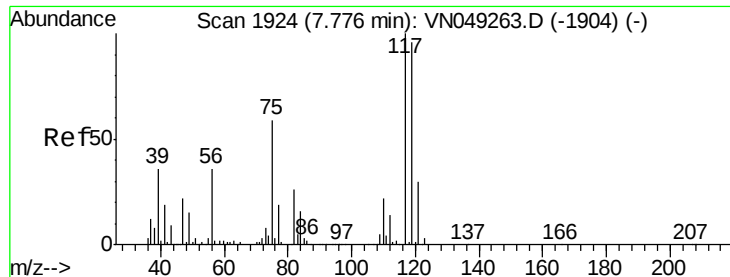
110 6.9 17.0 50.9#

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: 4.66 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN049561.D

Acq: 26 Jun 2018 18:57

Instrument :

MSVOA_N

ClientSampled :

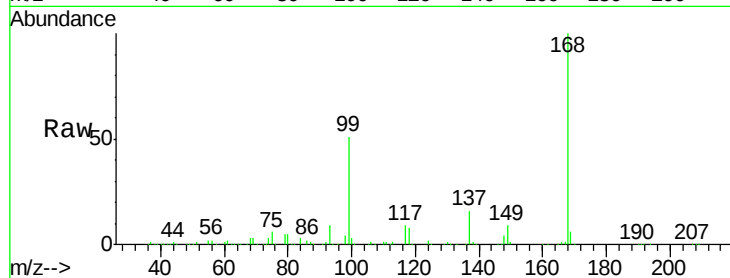
Tot Ion:117 Resp: 110561

Ion Ratio Lower Upper

117 100

119 5.1 75.6 113.4#

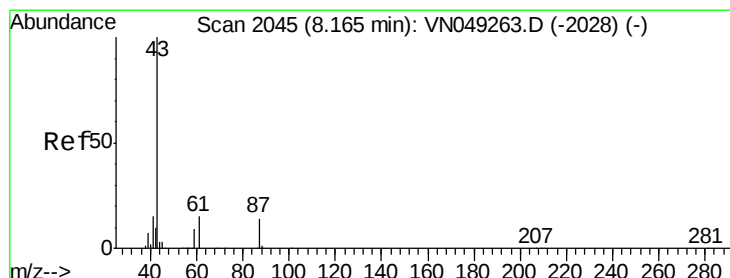
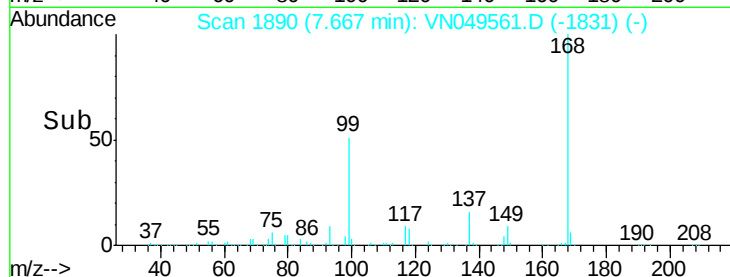
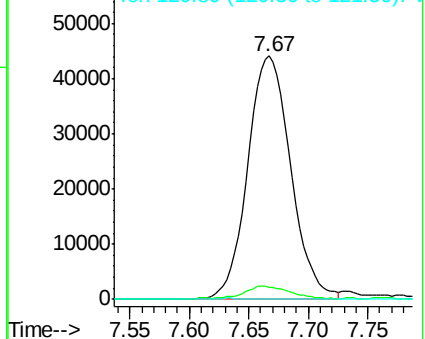
121 0.0 24.7 37.1#



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: 35.39 ug/l

RT: 8.27 min Scan# 2076

Delta R.T. 0.10 min

Lab File: VN049561.D

Acq: 26 Jun 2018 18:57

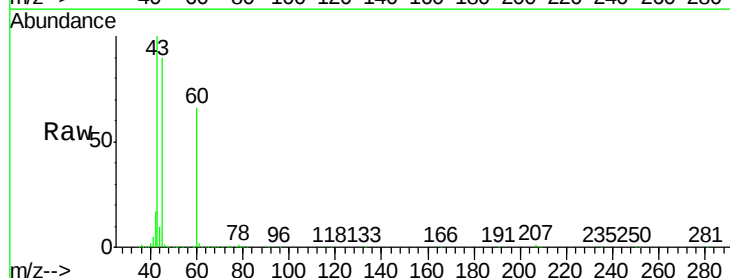
Tgt Ion: 43 Resp: 842085

Ion Ratio Lower Upper

43 100

61 0.0 14.2 21.4#

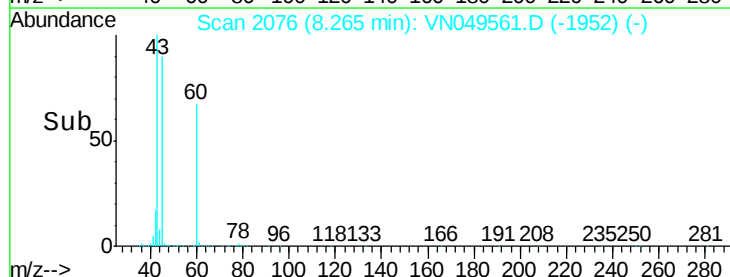
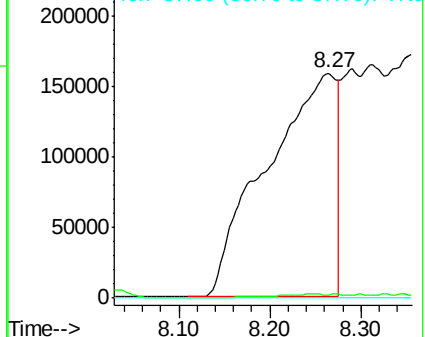
87 0.0 9.4 14.0#

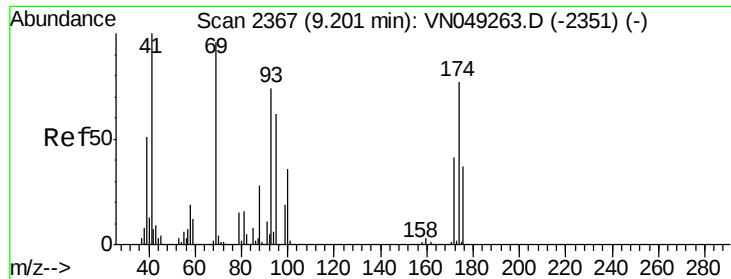


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

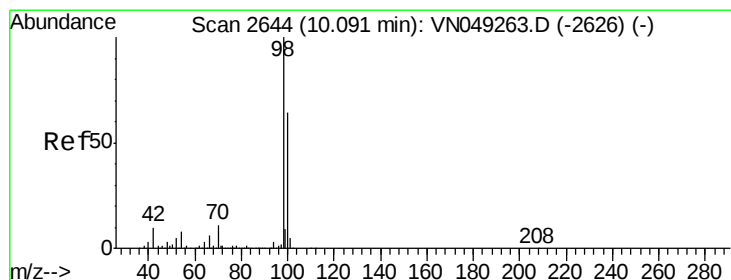
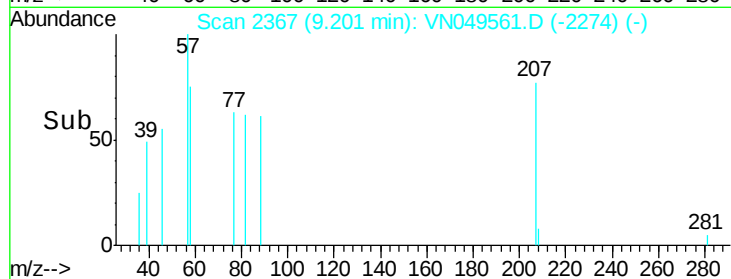
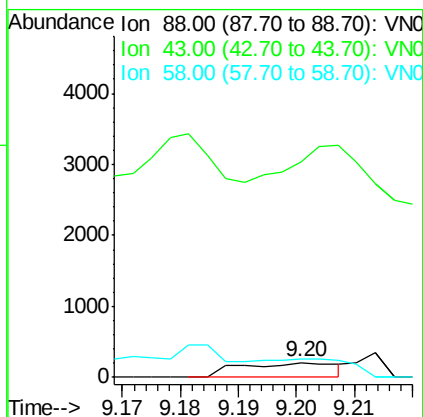
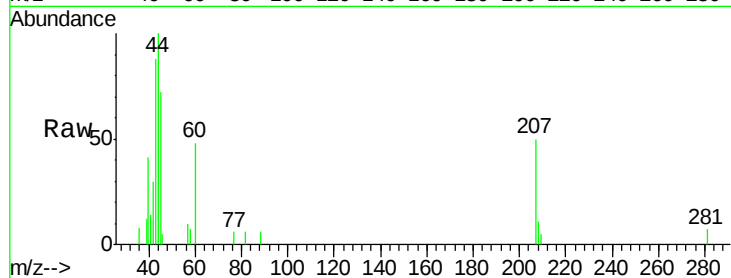




#49
 1,4-Dioxane
 Concen: 1.53 ug/l
 RT: 9.20 min Scan# 2367
 Delta R.T. 0.00 min
 Lab File: VN049561.D
 Acq: 26 Jun 2018 18:57

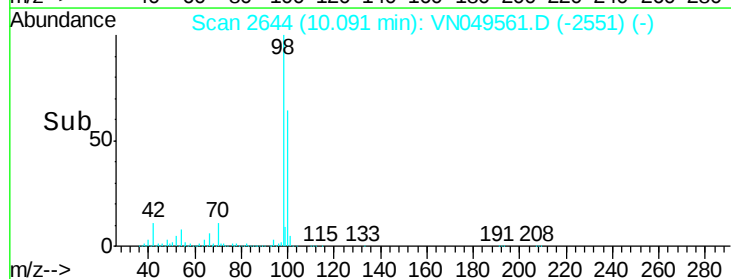
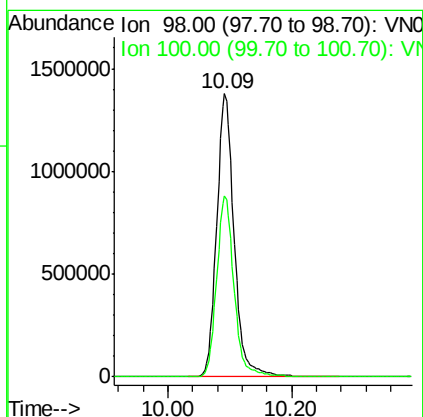
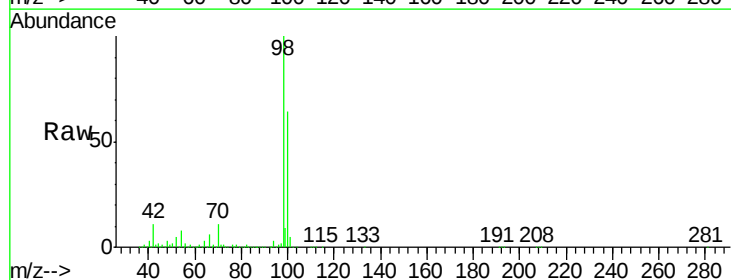
Instrument :
 MSVOA_N
 ClientSampleId :

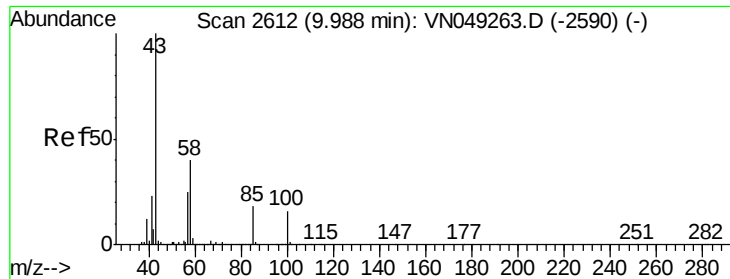
Tot Ion: 88 Resp: 237
 Ion Ratio Lower Upper
 88 100
 43 299.6 30.9 46.3#
 58 0.0 58.9 88.3#



#50
 Toluene-d8
 Concen: 43.88 ug/l
 RT: 10.09 min Scan# 2644
 Delta R.T. 0.00 min
 Lab File: VN049561.D
 Acq: 26 Jun 2018 18:57

Tgt Ion: 98 Resp: 2701346
 Ion Ratio Lower Upper
 98 100
 100 63.8 49.8 74.8

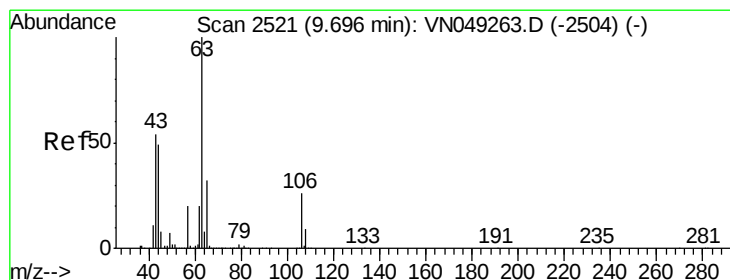
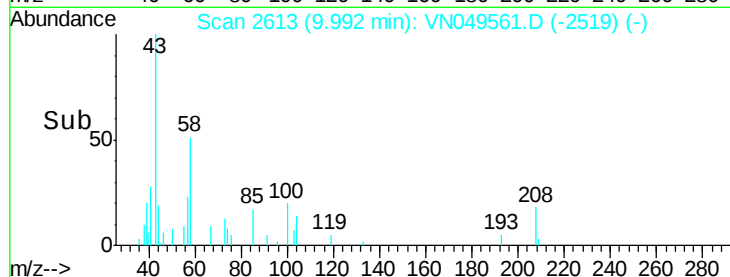
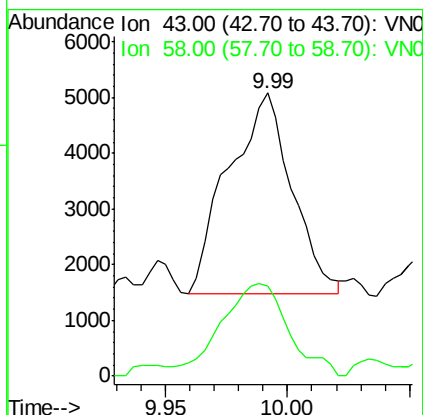
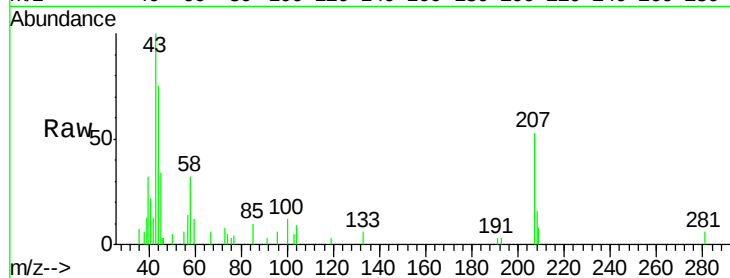




#51
4-Methyl-2-Pentanone
Concen: 0.52 ug/l
RT: 9.99 min Scan# 2613
Delta R.T. 0.00 min
Lab File: VN049561.D
Acq: 26 Jun 2018 18:57

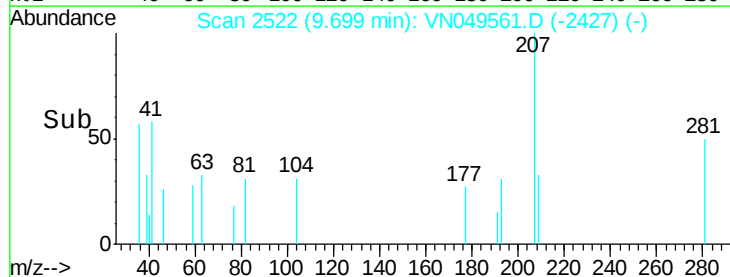
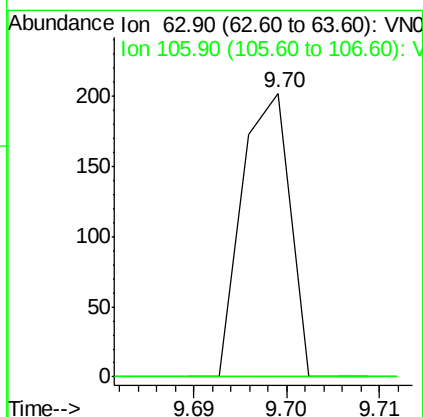
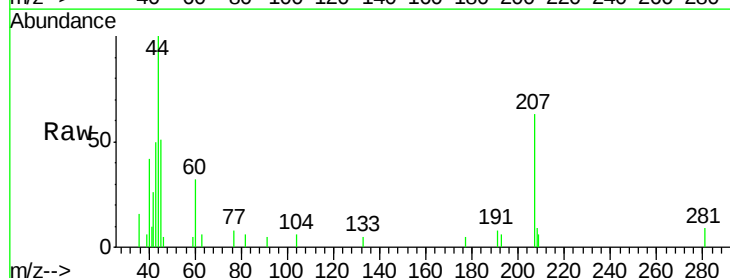
Instrument :
MSVOA_N
ClientSampled :

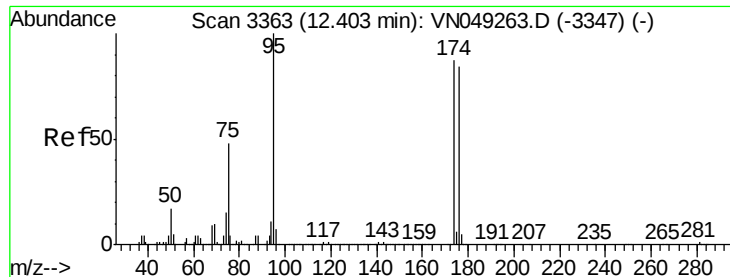
Tot Ion: 43 Resp: 6510
Ion Ratio Lower Upper
43 100
58 48.9 29.0 43.6#



#58
2-Chloroethyl Vinyl ether
Concen: 14.34 ug/l
RT: 9.70 min Scan# 2522
Delta R.T. 0.00 min
Lab File: VN049561.D
Acq: 26 Jun 2018 18:57

Tgt Ion: 63 Resp: 72
Ion Ratio Lower Upper
63 100
106 0.0 19.4 29.2#





#62

4-Bromofluorobenzene

Concen: 39.58 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049561.D

Acq: 26 Jun 2018 18:57

Instrument :

MSVOA_N

ClientSampleId :

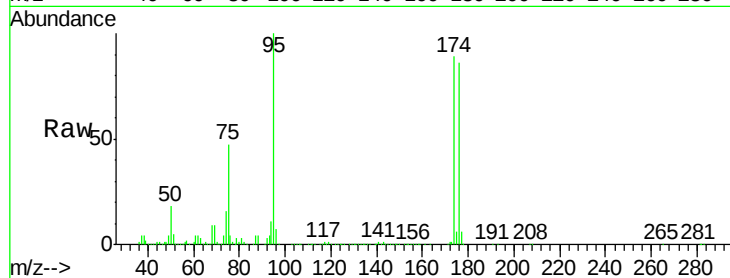
Tot Ion: 95 Resp: 805685

Ion Ratio Lower Upper

95 100

174 90.3 0.0 165.6

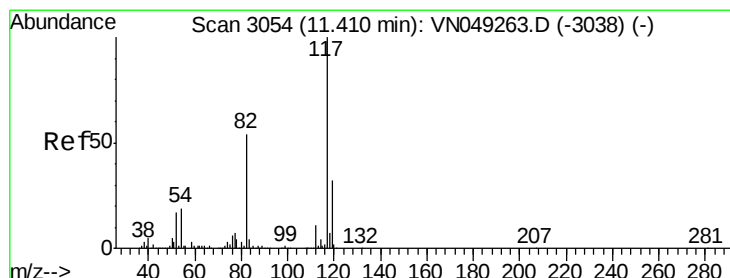
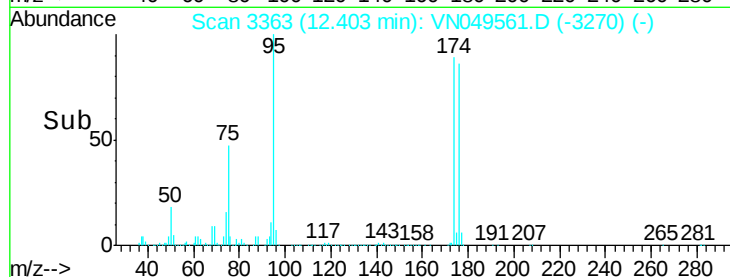
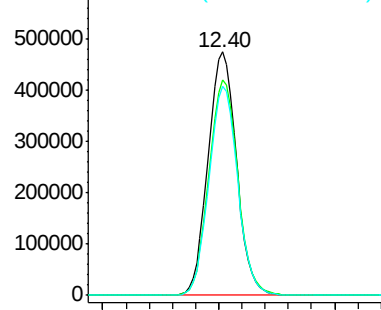
176 86.2 0.0 157.4



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



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN049561.D

Acq: 26 Jun 2018 18:57

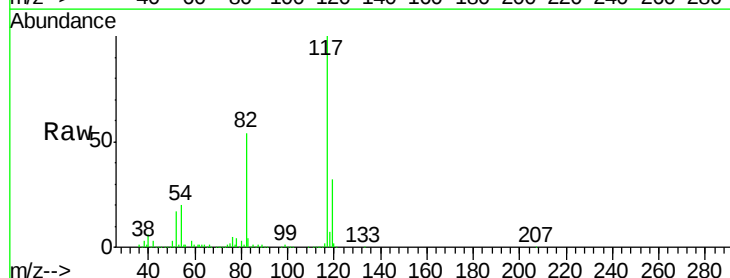
Tgt Ion: 117 Resp: 1678000

Ion Ratio Lower Upper

117 100

82 53.5 45.9 68.9

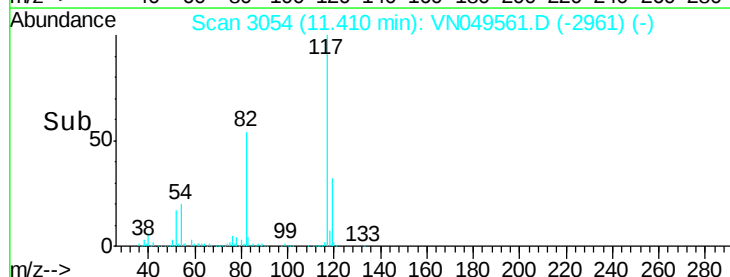
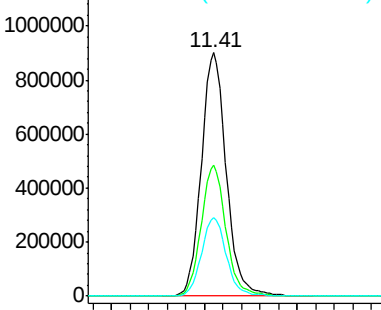
119 32.2 25.5 38.3

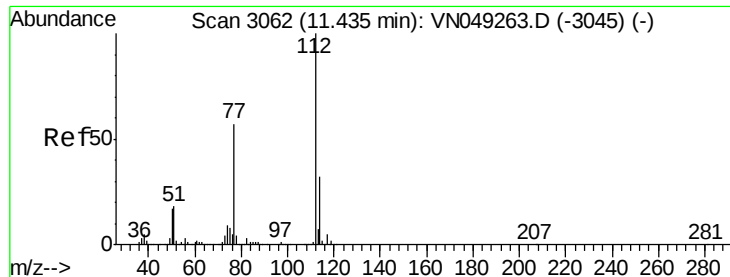


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#65

Chlorobenzene

Concen: 0.38 ug/l

RT: 11.43 min Scan# 3061

Delta R.T. -0.00 min

Lab File: VN049561.D

Acq: 26 Jun 2018 18:57

Instrument :

MSVOA_N

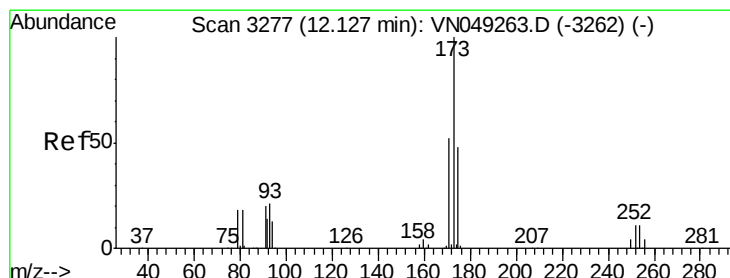
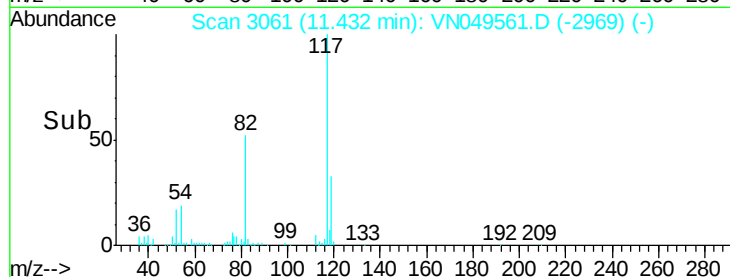
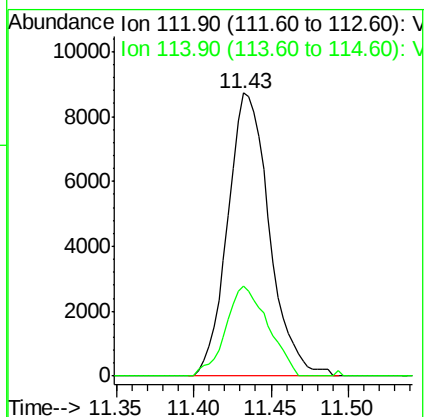
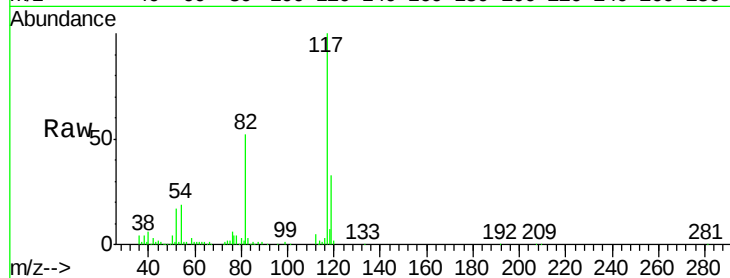
ClientSampleId :

Tot Ion:112 Resp: 16320

Ion Ratio Lower Upper

112 100

114 31.8 26.2 39.4



#71

Bromoform

Concen: 0.45 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN049561.D

Acq: 26 Jun 2018 18:57

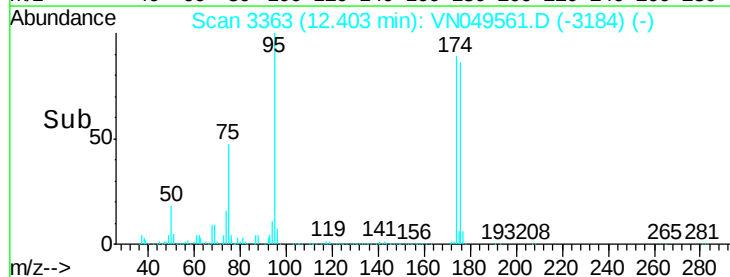
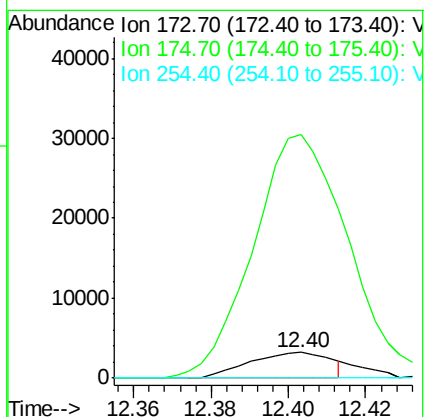
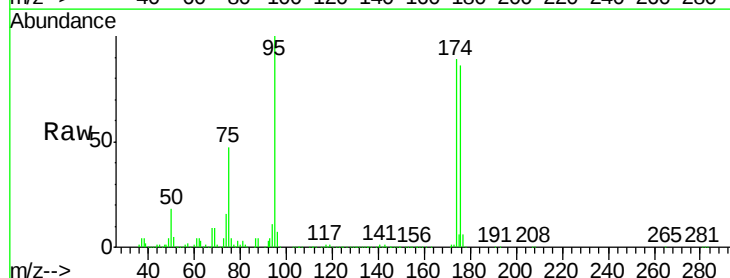
Tgt Ion:173 Resp: 4721

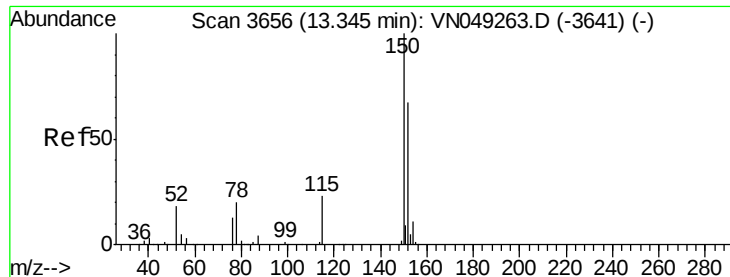
Ion Ratio Lower Upper

173 100

175 911.7 24.5 73.5#

254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN049561.D

Acq: 26 Jun 2018 18:57

Instrument :

MSVOA_N

ClientSampleId :

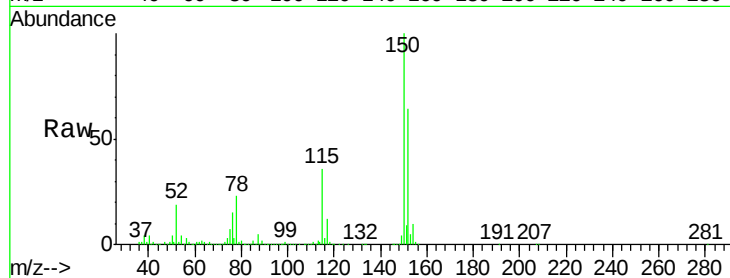
Tot Ion:152 Resp: 682049

Ion Ratio Lower Upper

152 100

115 56.9 28.7 86.1

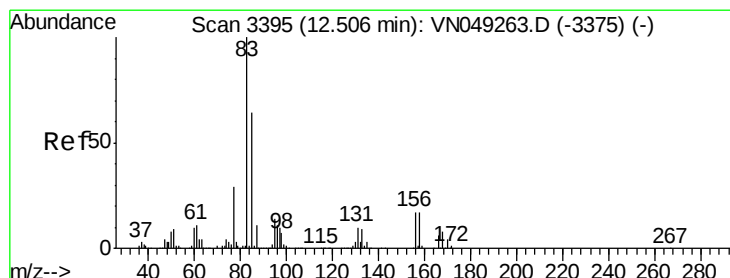
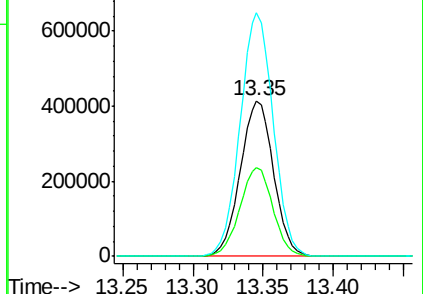
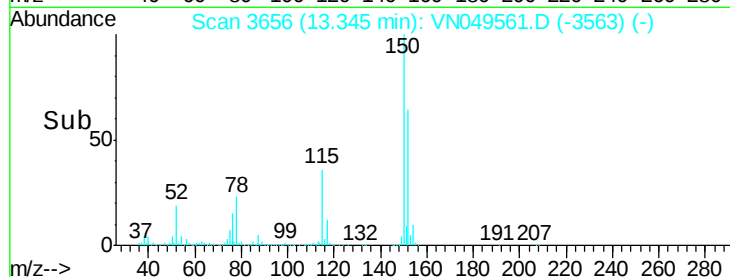
150 156.4 0.0 351.0



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: VN049561.D

Acq: 26 Jun 2018 18:57

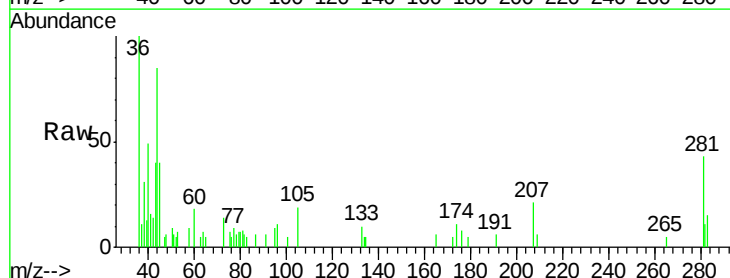
Tgt Ion: 83 Resp: 30

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

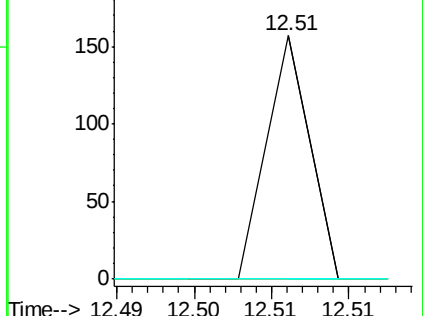
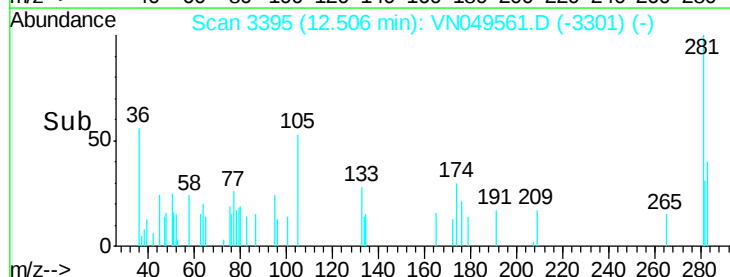
85 0.0 32.0 96.0#

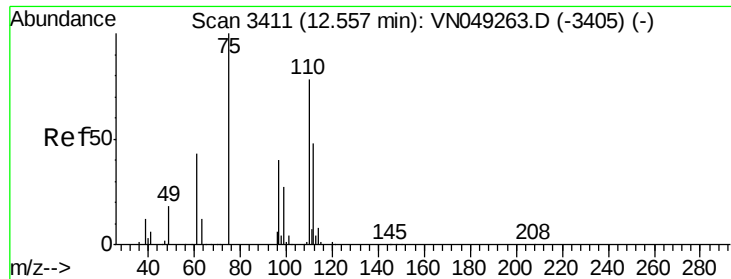


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 33.21 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049561.D

Acq: 26 Jun 2018 18:57

Instrument :

MSVOA_N

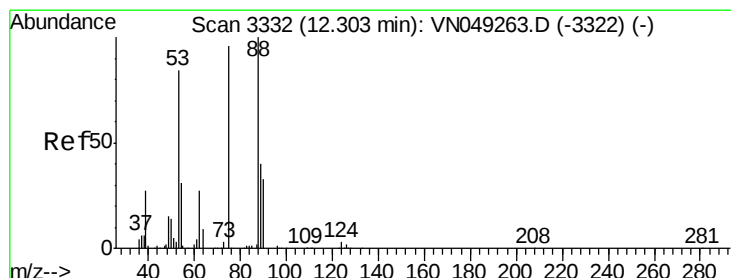
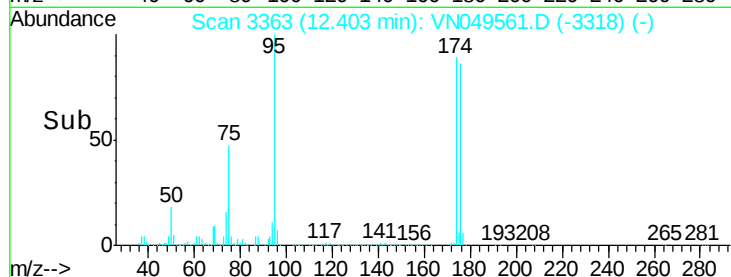
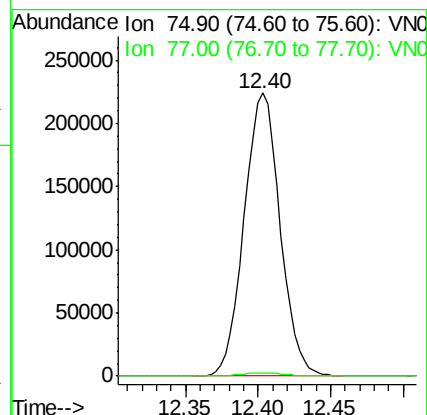
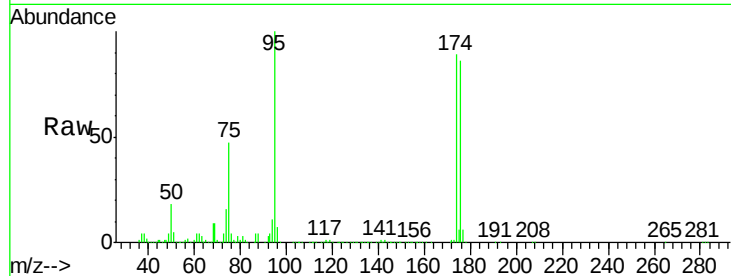
ClientSampled :

Tot Ion: 75 Resp: 386432

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 104.95 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049561.D

Acq: 26 Jun 2018 18:57

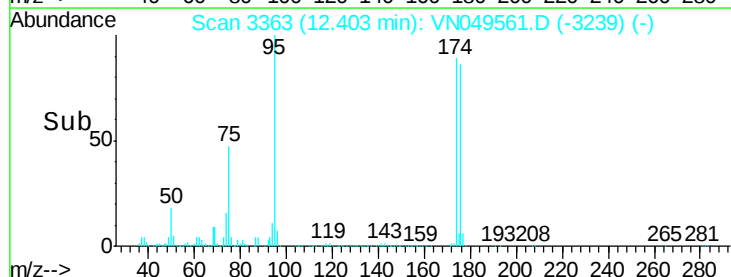
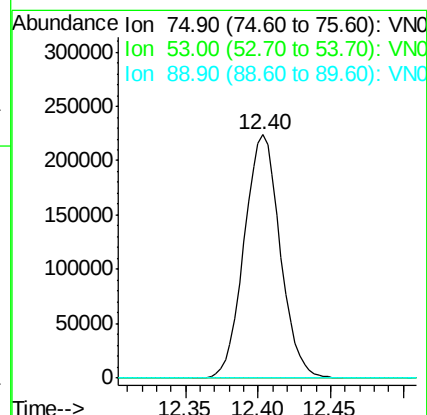
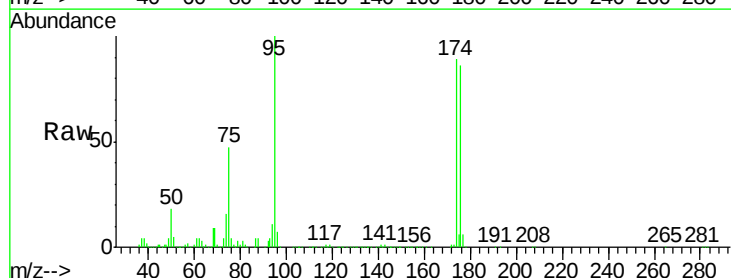
Tgt Ion: 75 Resp: 386432

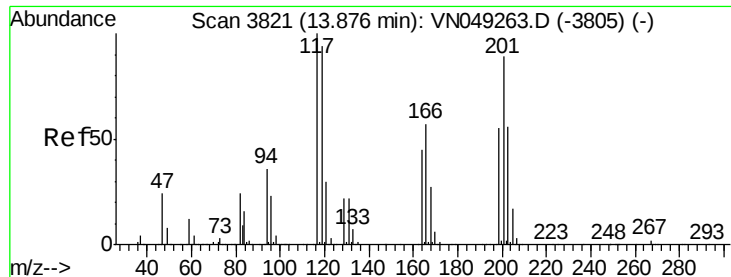
Ion Ratio Lower Upper

75 100

53 0.3 82.7 124.1#

89 0.0 36.5 54.7#





#90

Hexachloroethane

Concen: Below Cal

RT: 13.89 min Scan# 3826

Delta R.T. 0.02 min

Lab File: VN049561.D

Acq: 26 Jun 2018 18:57

Instrument :

MSVOA_N

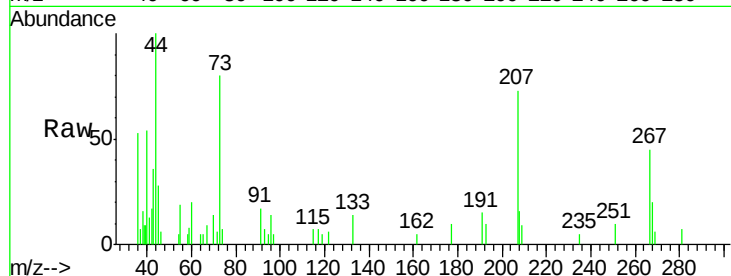
ClientSampled :

Tot Ion:117 Resp: 91

Ion Ratio Lower Upper

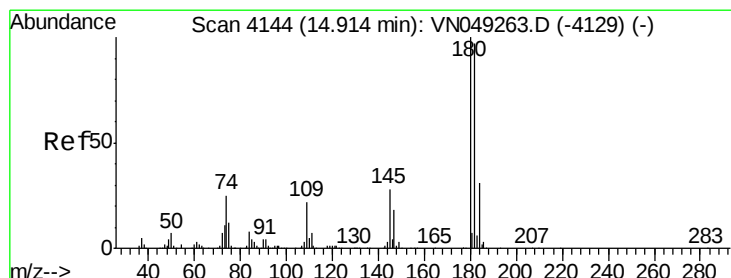
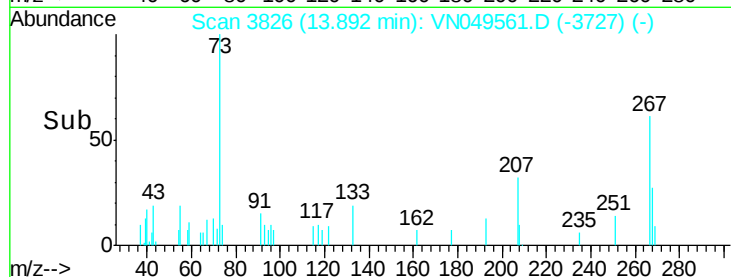
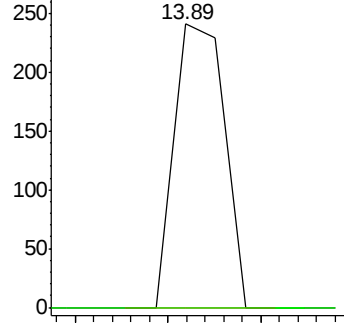
117 100

201 0.0 40.1 120.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#93

1,2,4-Trichlorobenzene

Concen: 4.82 ug/l

RT: 14.91 min Scan# 4143

Delta R.T. -0.00 min

Lab File: VN049561.D

Acq: 26 Jun 2018 18:57

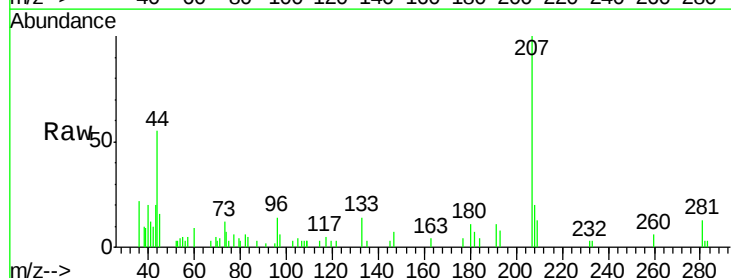
Tgt Ion:180 Resp: 958

Ion Ratio Lower Upper

180 100

182 112.8 46.9 140.8

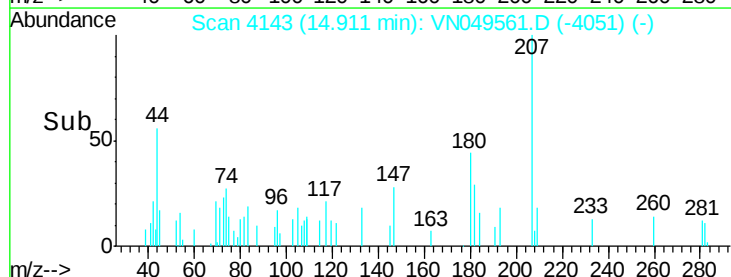
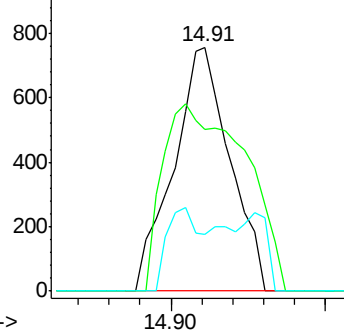
145 20.7 14.7 44.1

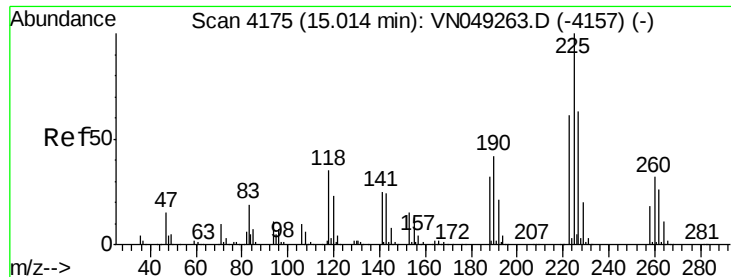


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

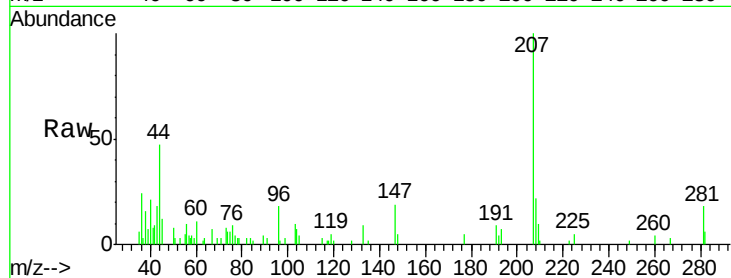




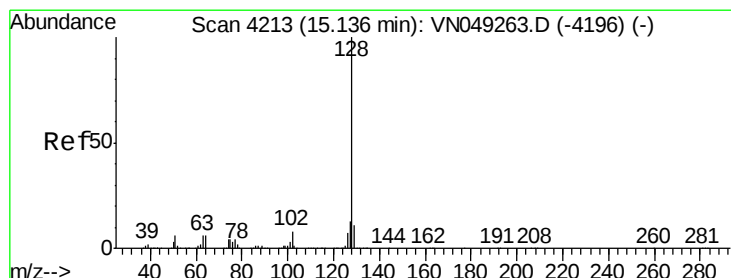
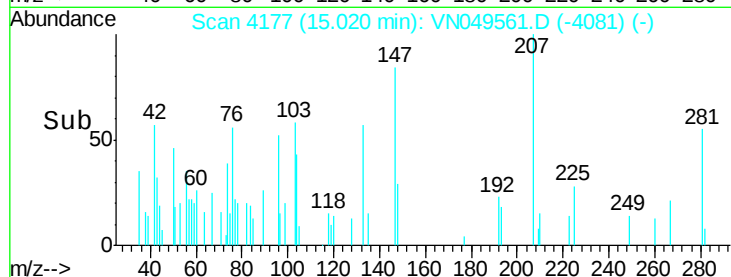
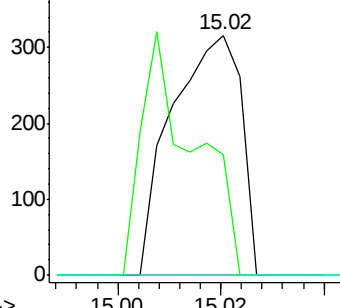
#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.02 min Scan# 4177
Delta R.T. 0.01 min
Lab File: VN049561.D
Acq: 26 Jun 2018 18:57

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
225	100		
223	77.3	32.1	96.3
227	0.0	31.8	95.3#

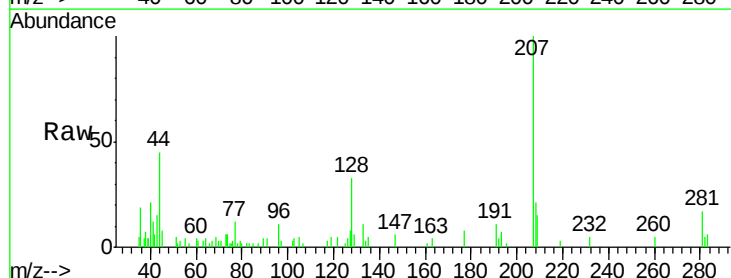


Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V

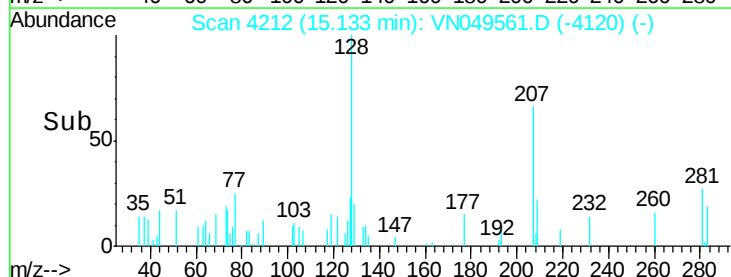
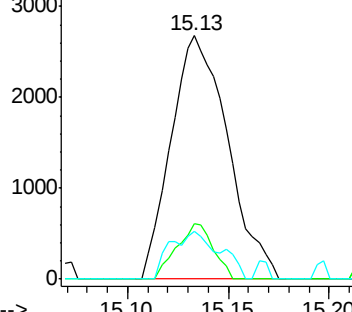


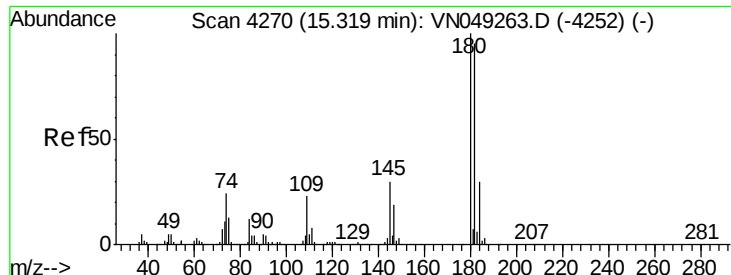
#95
Naphthalene
Concen: 2.36 ug/l
RT: 15.13 min Scan# 4212
Delta R.T. -0.00 min
Lab File: VN049561.D
Acq: 26 Jun 2018 18:57

Tgt Ion	Ratio	Lower	Upper
128	100		
127	14.8	10.6	16.0
129	17.2	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: 3.53 ug/l
 RT: 15.32 min Scan# 4269
 Delta R.T. -0.00 min
 Lab File: VN049561.D
 Acq: 26 Jun 2018 18:57

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.8	47.3	141.8
145	49.7	15.6	46.7#

