

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061818\
 Data File : VN049350.D
 Acq On : 18 Jun 2018 18:13
 Operator : MD\SY
 Sample : PB110313ZHE#15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 19 01:34:06 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	1232036	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1980206	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1627651	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	522403	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	831625	50.89	ug/l	0.00
Spiked Amount			Recovery	=	101.78%	
35) Dibromofluoromethane	7.59	113	728998	45.50	ug/l	0.00
Spiked Amount			Recovery	=	91.00%	
50) Toluene-d8	10.09	98	2664150	43.67	ug/l	0.00
Spiked Amount			Recovery	=	87.34%	
62) 4-Bromofluorobenzene	12.41	95	714413	35.42	ug/l	0.00
Spiked Amount			Recovery	=	70.84%	

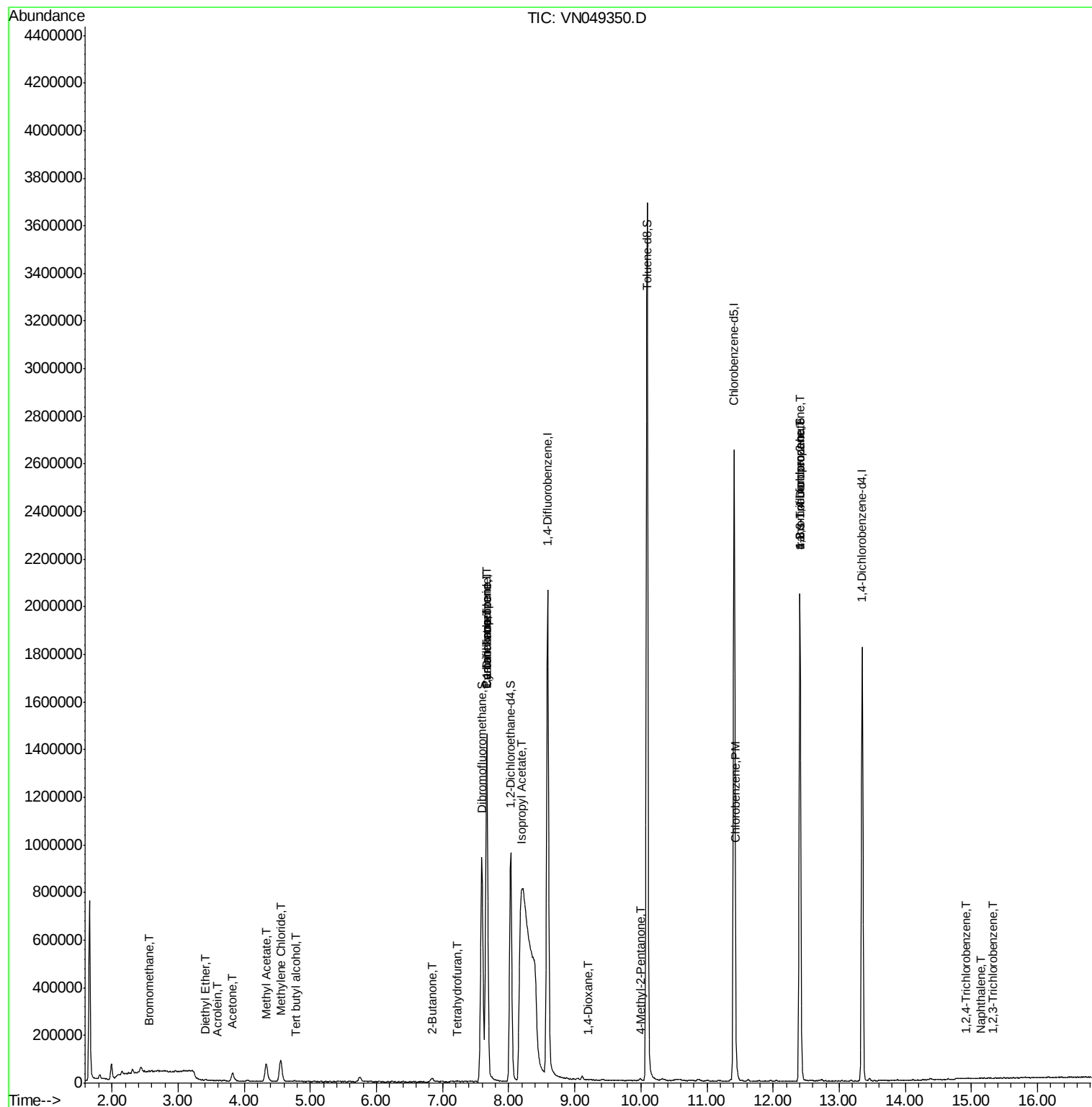
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	2589	0.25	ug/l	86
8) Diethyl Ether	3.42	74	1762	0.21	ug/l	68
11) Tert butyl alcohol	4.78	59	394	0.41	ug/l #	70
13) Acrolein	3.61	56	392	0.39	ug/l #	14
16) Acetone	3.82	43	59626	15.03	ug/l #	88
18) Methyl Acetate	4.33	43	148722	12.29	ug/l	98
20) Methylene Chloride	4.55	84	68350	4.12	ug/l	89
25) 2-Butanone	6.86	43	9913	1.86	ug/l #	80
29) Tetrahydrofuran	7.23	42	1339	0.39	ug/l #	61
31) Cyclohexane	7.67	56	23398	0.79	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	86708	3.82	ug/l #	42
38) Carbon Tetrachloride	7.67	117	110401	4.70	ug/l #	18
43) Isopropyl Acetate	8.20	43	2070349	87.83	ug/l #	64
49) 1,4-Dioxane	9.20	88	196	1.28	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	6372	0.52	ug/l	95
65) Chlorobenzene	11.44	112	23168	0.55	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.41	83	619	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.41	75	346077	38.83	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	346077	122.71	ug/l #	9
90) Hexachloroethane	14.00	117	117	Below Cal	#	9
93) 1,2,4-Trichlorobenzene	14.92	180	305	4.77	ug/l #	28
95) Naphthalene	15.14	128	1927	2.21	ug/l #	78
96) 1,2,3-Trichlorobenzene	15.32	180	247	3.48	ug/l #	42

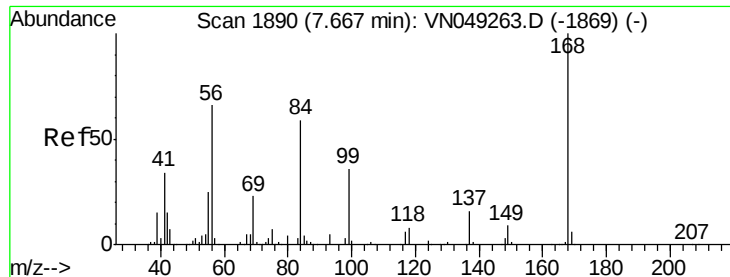
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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Quant Time: Jun 19 01:34:06 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: VN049350.D

Acq: 18 Jun 2018 18:13

Instrument :

MSVOA_N

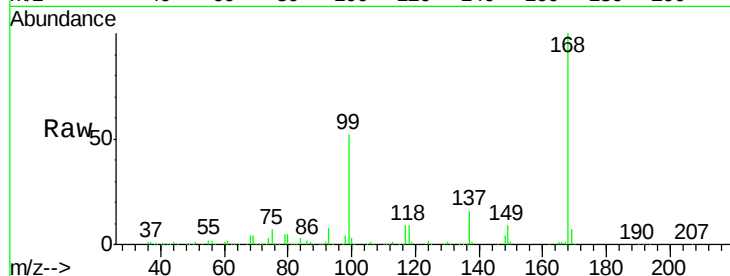
ClientSampled :

Tot Ion:168 Resp: 1232036

Ion Ratio Lower Upper

168 100

99 52.2 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

600000

500000

400000

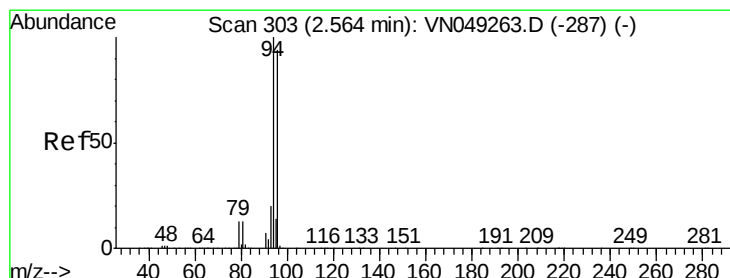
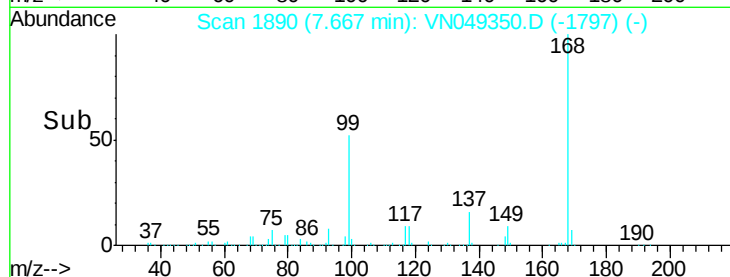
300000

200000

100000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#5

Bromomethane

Concen: 0.25 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.00 min

Lab File: VN049350.D

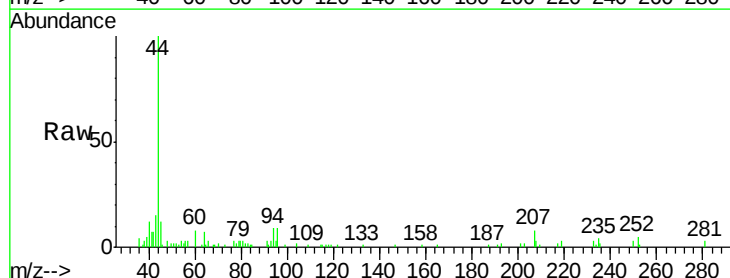
Acq: 18 Jun 2018 18:13

Tgt Ion: 94 Resp: 2589

Ion Ratio Lower Upper

94 100

96 77.6 72.8 109.2



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.57

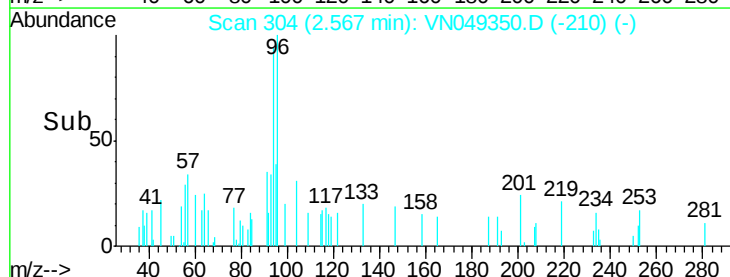
1500

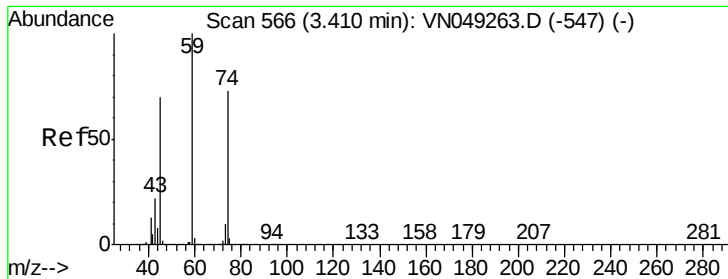
1000

500

0

Time--> 2.55 2.60





#8

Diethyl Ether

Concen: 0.21 ug/l

RT: 3.42 min Scan# 568

Delta R.T. 0.01 min

Lab File: VN049350.D

Acq: 18 Jun 2018 18:13

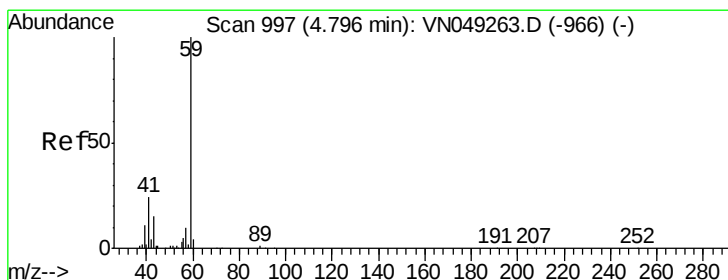
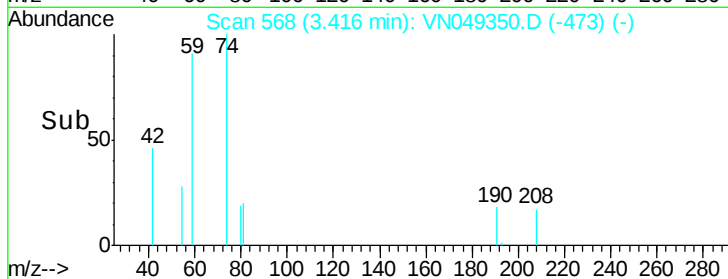
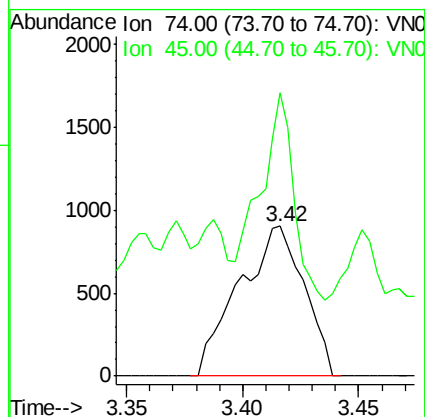
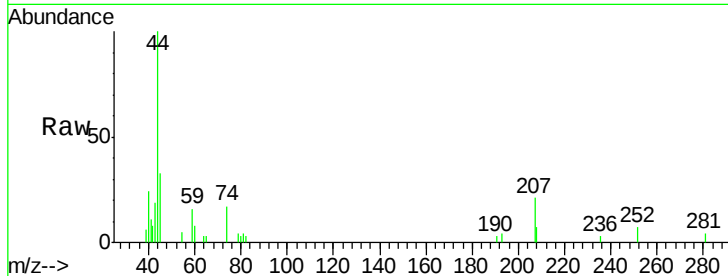
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 74 Resp: 1762

Ion Ratio Lower Upper

74 100

45 71.7 51.9 155.8



#11

Tert butyl alcohol

Concen: 0.41 ug/l

RT: 4.78 min Scan# 993

Delta R.T. -0.01 min

Lab File: VN049350.D

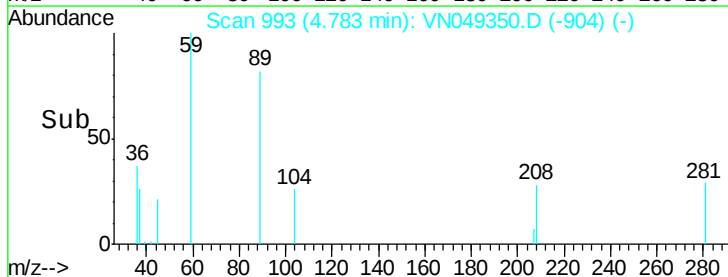
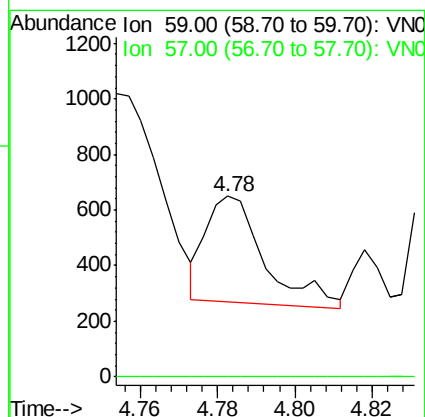
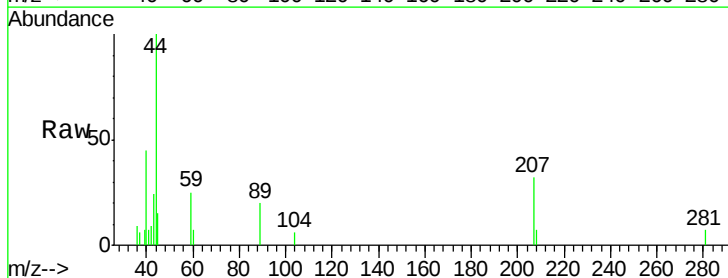
Acq: 18 Jun 2018 18:13

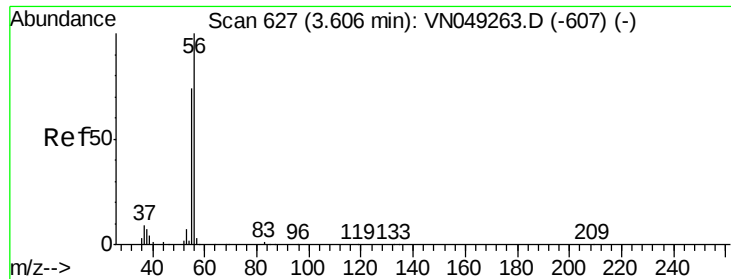
Tgt Ion: 59 Resp: 394

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.6#





#13

Acrolein

Concen: 0.39 ug/l

RT: 3.61 min Scan# 627

Delta R.T. -0.00 min

Lab File: VN049350.D

Acq: 18 Jun 2018 18:13

Instrument :

MSVOA_N

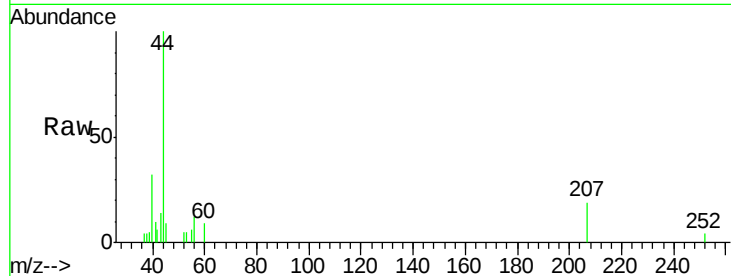
ClientSampled :

Tot Ion: 56 Resp: 392

Ion Ratio Lower Upper

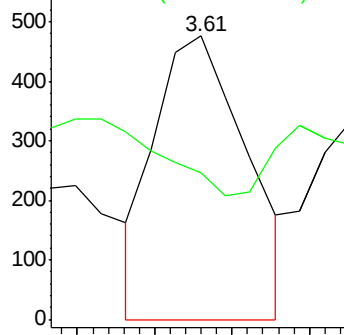
56 100

55 0.0 57.1 85.7#

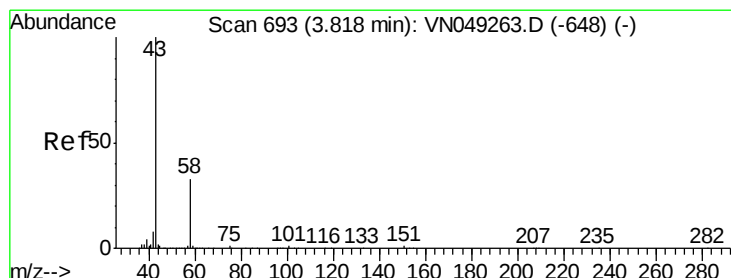
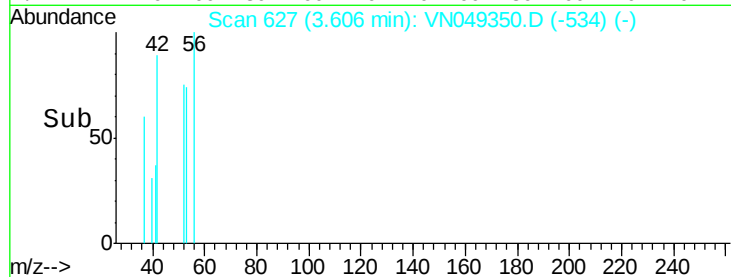


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



Time-->



#16

Acetone

Concen: 15.03 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.01 min

Lab File: VN049350.D

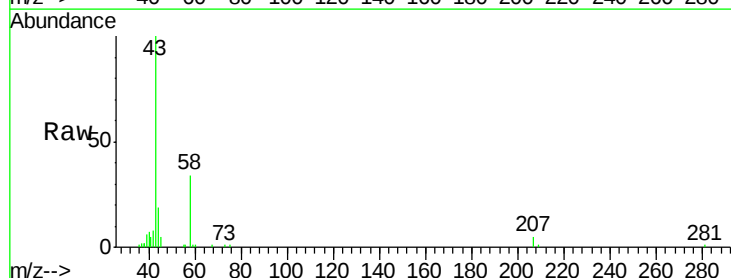
Acq: 18 Jun 2018 18:13

Tgt Ion: 43 Resp: 59626

Ion Ratio Lower Upper

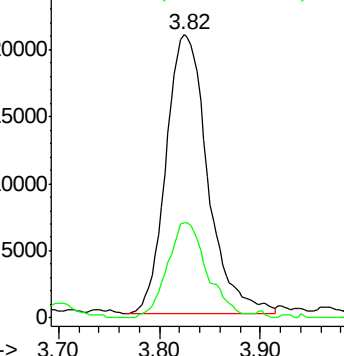
43 100

58 34.4 22.4 33.6#

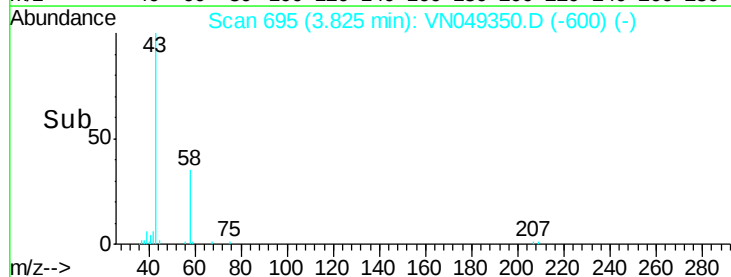


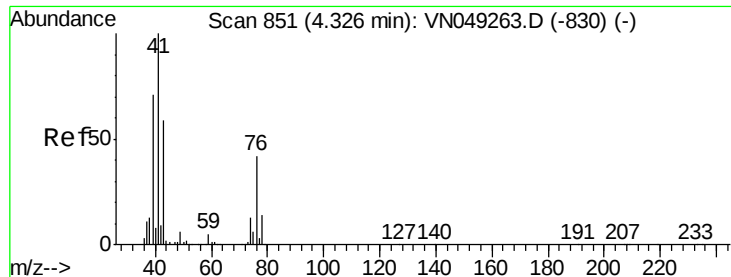
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->

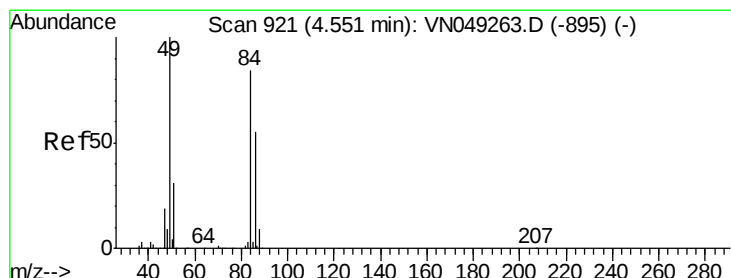
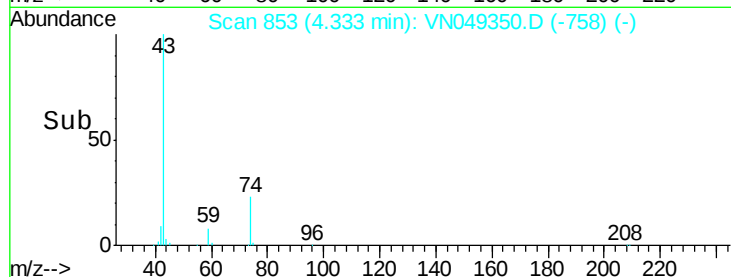
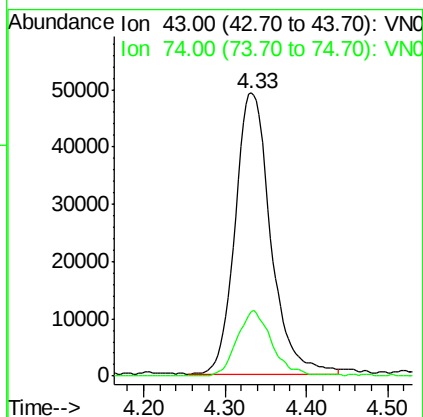
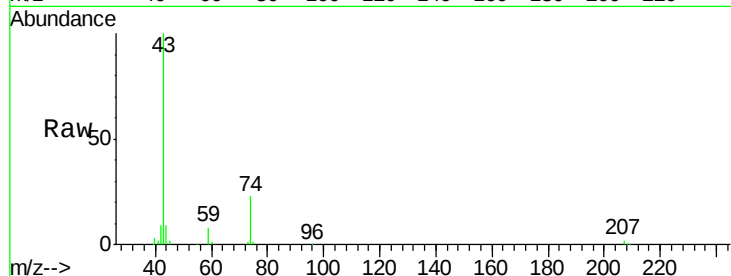




#18
Methvl Acetate
Concen: 12.29 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.01 min
Lab File: VN049350.D
Acq: 18 Jun 2018 18:13

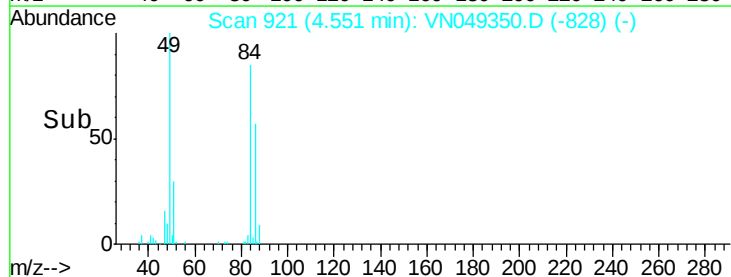
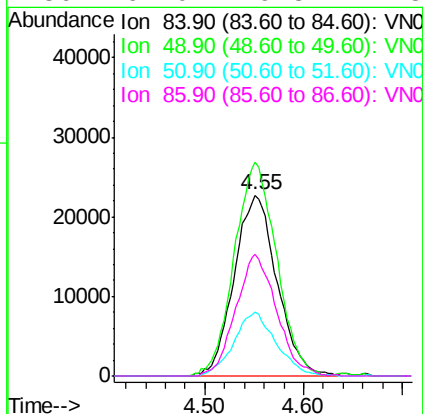
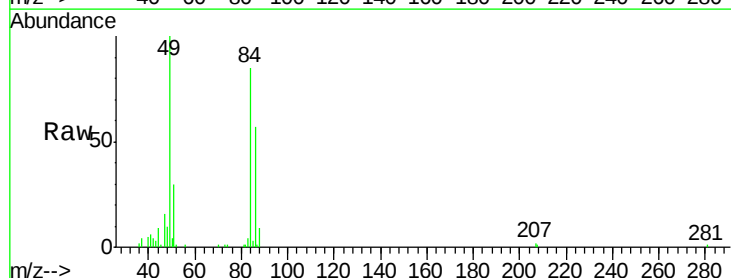
Instrument :
MSVOA_N
ClientSampled :

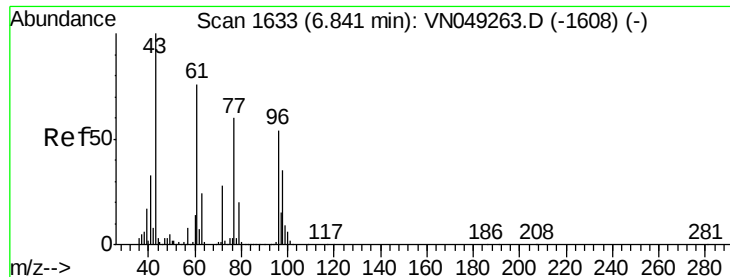
Tot Ion: 43 Resp: 148722
Ion Ratio Lower Upper
43 100
74 22.7 17.4 26.0



#20
Methylene Chloride
Concen: 4.12 ug/l
RT: 4.55 min Scan# 921
Delta R.T. -0.00 min
Lab File: VN049350.D
Acq: 18 Jun 2018 18:13

Tgt Ion: 84 Resp: 68350
Ion Ratio Lower Upper
84 100
49 118.0 106.9 160.3
51 35.4 32.7 49.1
86 67.0 49.8 74.8

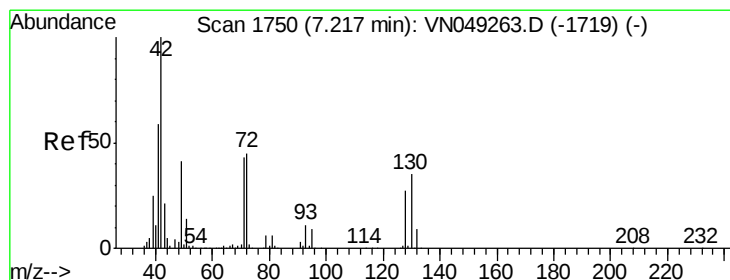
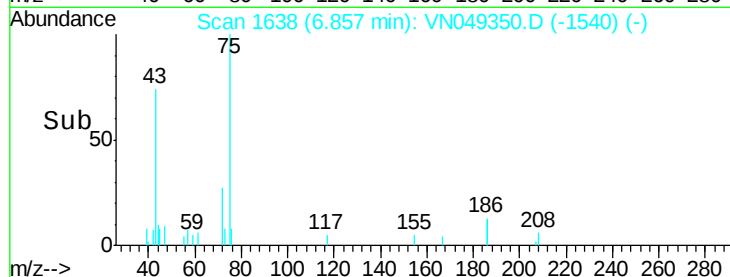
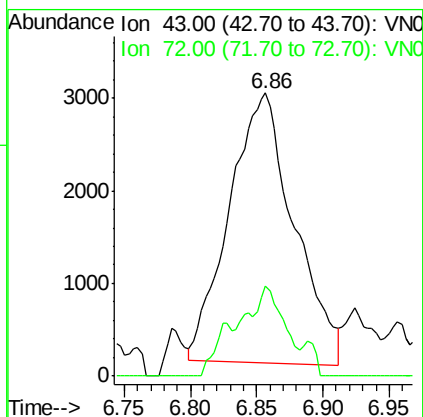
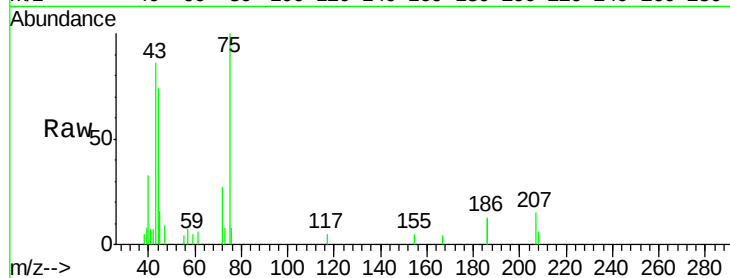




#25
2-Butanone
Concen: 1.86 ug/l
RT: 6.86 min Scan# 1638
Delta R.T. 0.02 min
Lab File: VN049350.D
Acq: 18 Jun 2018 18:13

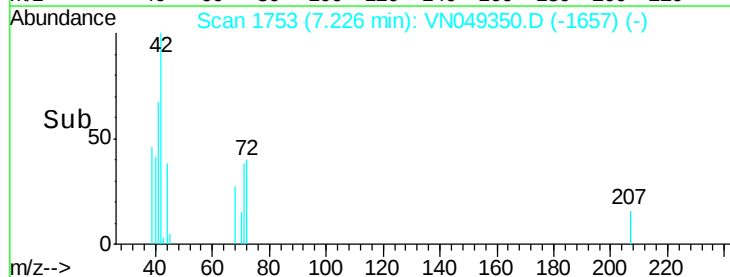
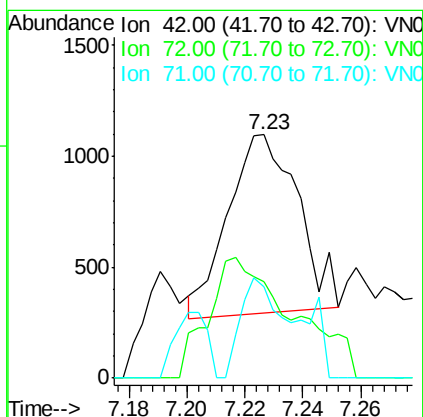
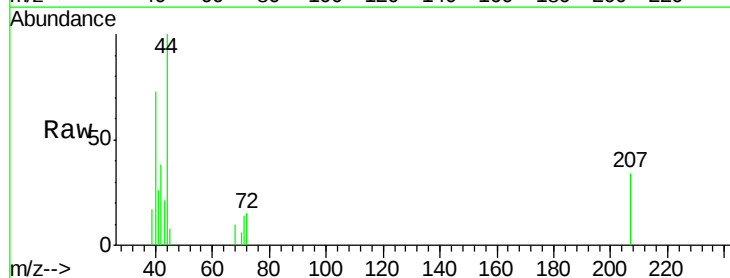
Instrument :
MSVOA_N
ClientSampled :

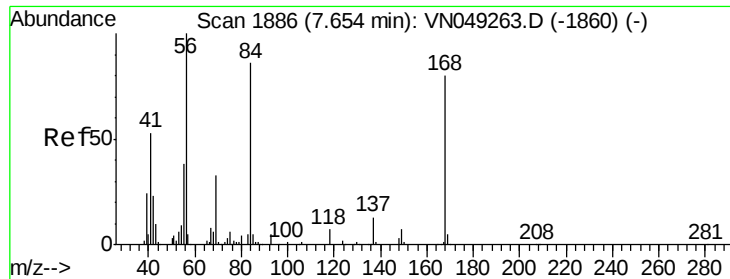
Tot Ion: 43 Resp: 9913
Ion Ratio Lower Upper
43 100
72 35.2 20.2 30.2#



#29
Tetrahydrofuran
Concen: 0.39 ug/l
RT: 7.23 min Scan# 1753
Delta R.T. 0.01 min
Lab File: VN049350.D
Acq: 18 Jun 2018 18:13

Tgt Ion: 42 Resp: 1339
Ion Ratio Lower Upper
42 100
72 82.2 32.2 48.4#
71 32.3 30.5 45.7

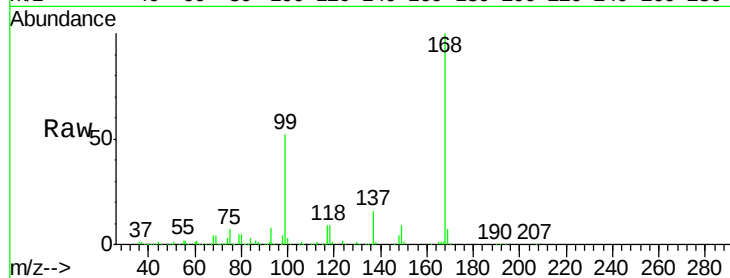




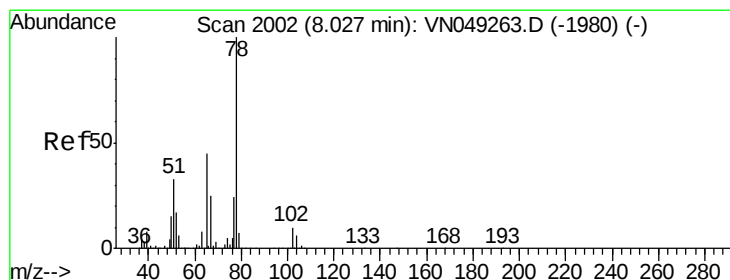
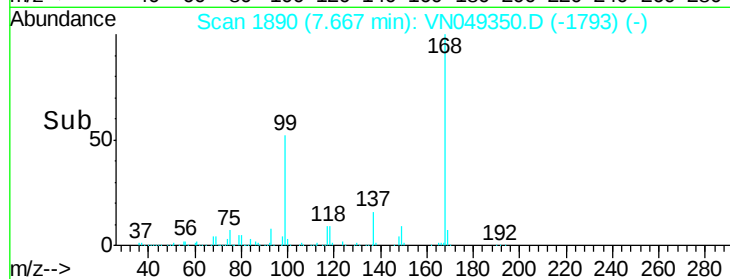
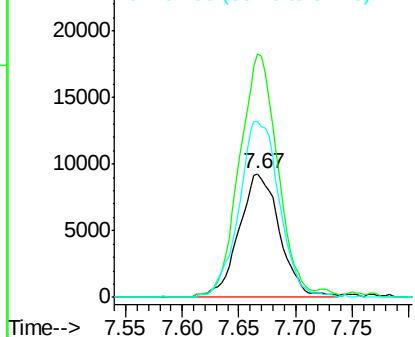
#31
Cyclohexane
Concen: 0.79 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN049350.D
Acq: 18 Jun 2018 18:13

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 23398
Ion Ratio Lower Upper
56 100
69 196.9 25.0 37.4#
84 141.8 64.6 96.8#

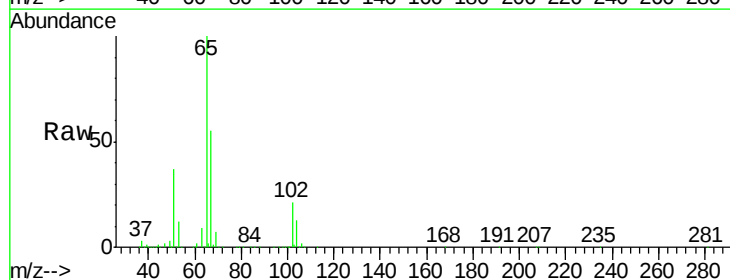


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

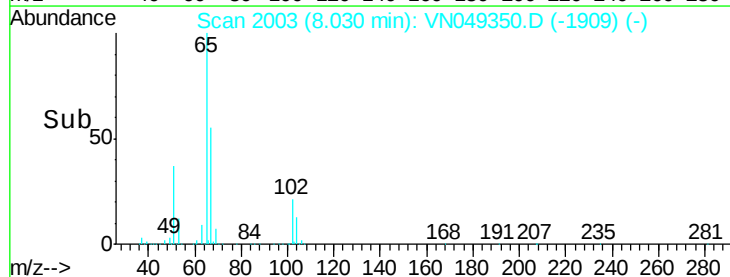
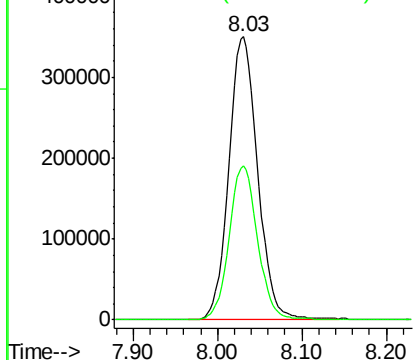


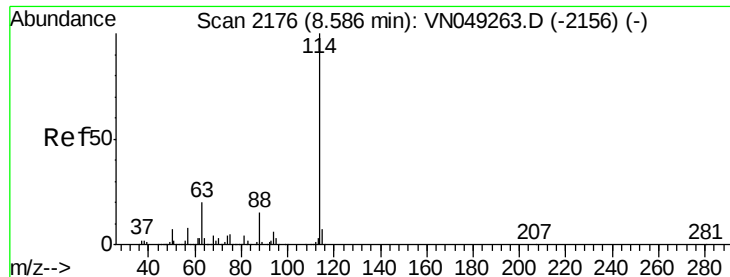
#33
1,2-Dichloroethane-d4
Concen: 50.89 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049350.D
Acq: 18 Jun 2018 18:13

Tgt Ion: 65 Resp: 831625
Ion Ratio Lower Upper
65 100
67 53.9 0.0 103.8



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

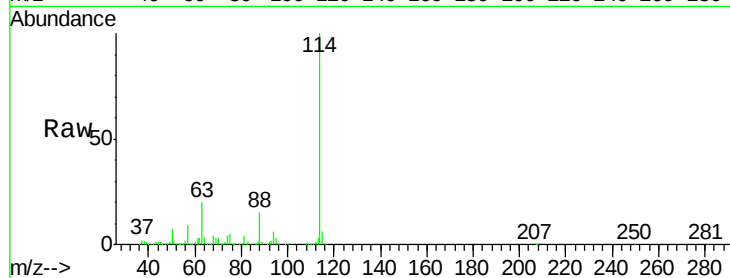




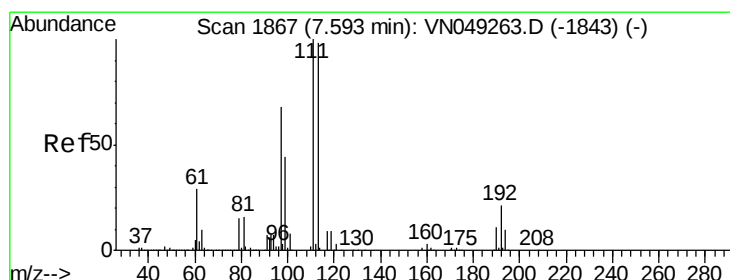
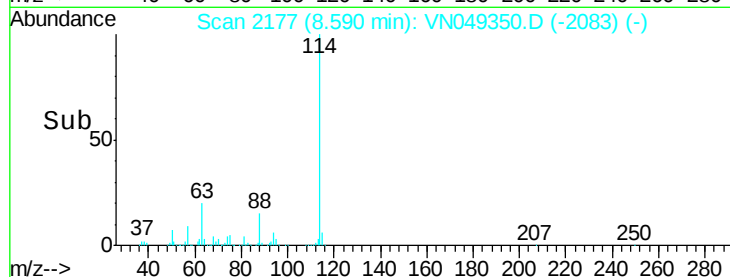
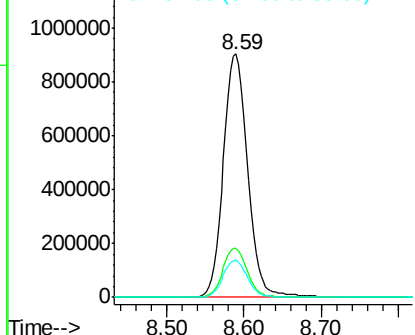
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN049350.D
 Acq: 18 Jun 2018 18:13

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 1980206
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 44.4
 88 15.3 0.0 31.4

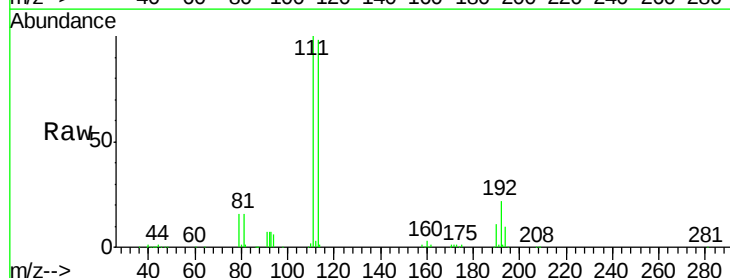


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

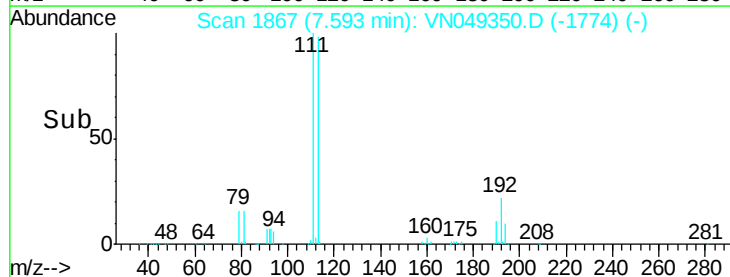
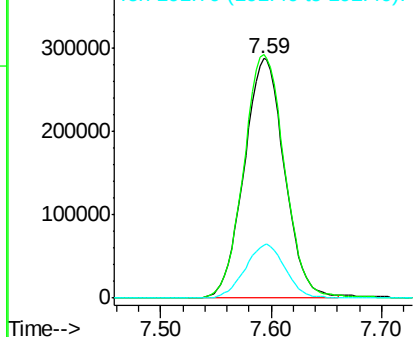


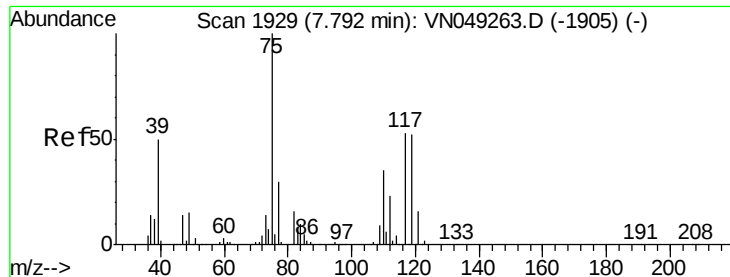
#35
 Dibromofluoromethane
 Concen: 45.50 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN049350.D
 Acq: 18 Jun 2018 18:13

Tgt Ion:113 Resp: 728998
 Ion Ratio Lower Upper
 113 100
 111 102.8 82.4 123.6
 192 22.5 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

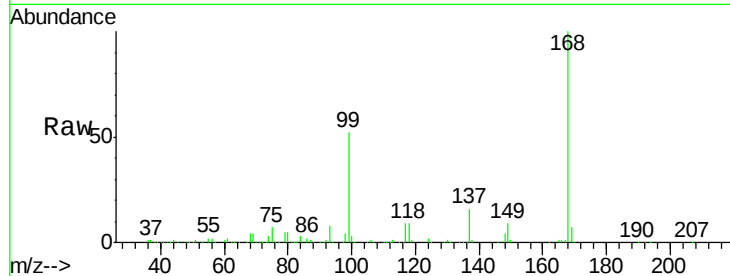




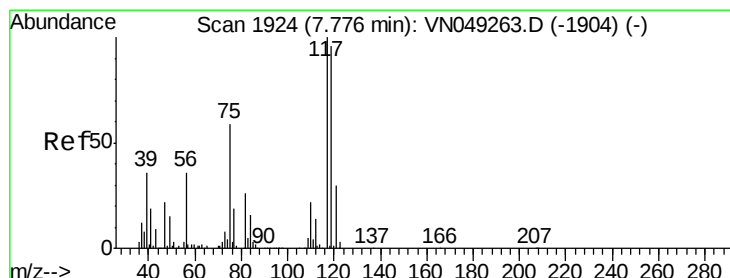
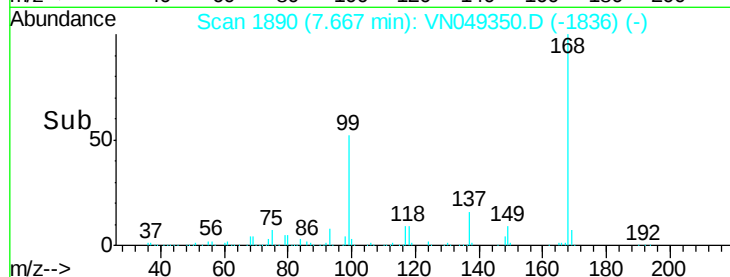
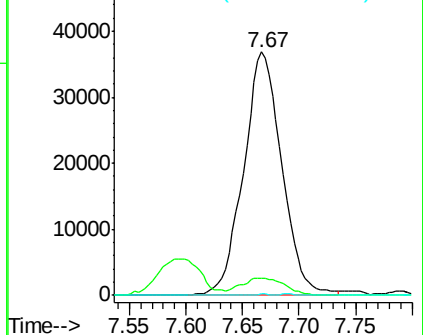
#36
 1,1-Dichloropropene
 Concen: 3.82 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049350.D
 Acq: 18 Jun 2018 18:13

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	75	Resp	86708
Ion Ratio	Lower	Upper	
75	100		
110	0.0	17.0	50.9#
77	0.1	24.4	36.6#

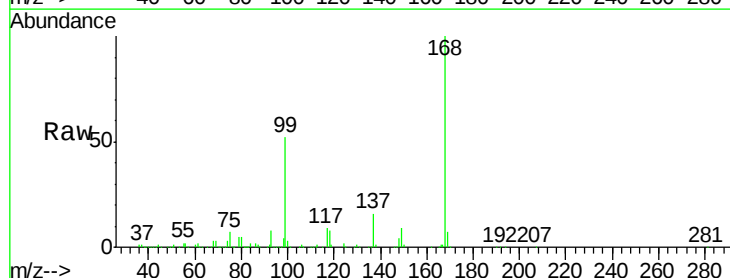


Abundance Ion 74.90 (74.60 to 75.60): VN049350.D (-1836) (-)

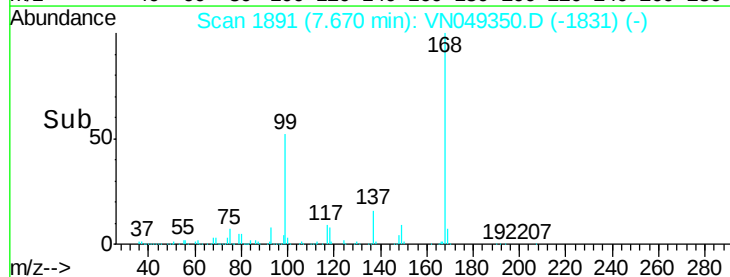
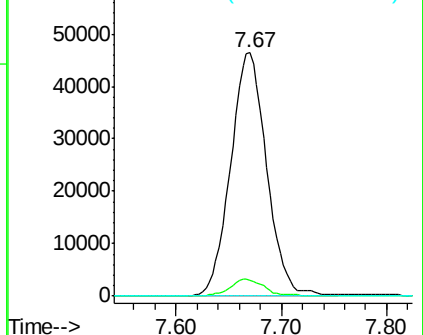


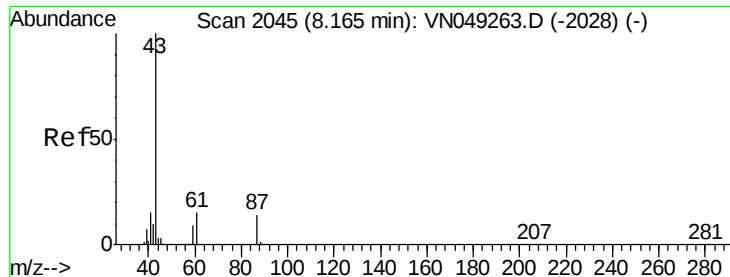
#38
 Carbon Tetrachloride
 Concen: 4.70 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.11 min
 Lab File: VN049350.D
 Acq: 18 Jun 2018 18:13

Tgt Ion	117	Resp	110401
Ion Ratio	Lower	Upper	
117	100		
119	6.7	75.6	113.4#
121	0.0	24.7	37.1#



Abundance Ion 116.80 (116.50 to 117.50): VN049350.D (-1831) (-)





#43

Isopropyl Acetate

Concen: 87.83 ug/l

RT: 8.20 min Scan# 2055

Delta R.T. 0.03 min

Lab File: VN049350.D

Acq: 18 Jun 2018 18:13

Instrument :

MSVOA_N

ClientSampleId :

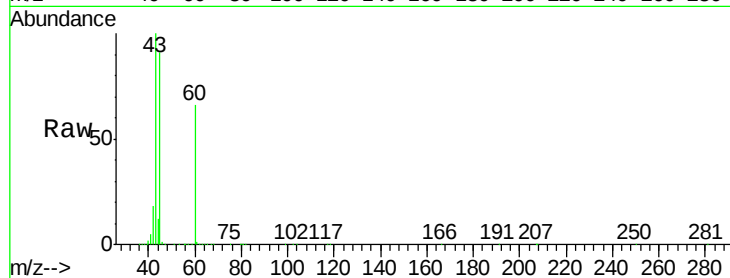
Tot Ion: 43 Resp: 2070349

Ion Ratio Lower Upper

43 100

61 0.0 14.2 21.4#

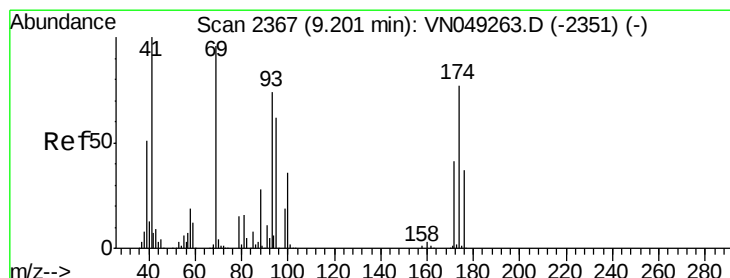
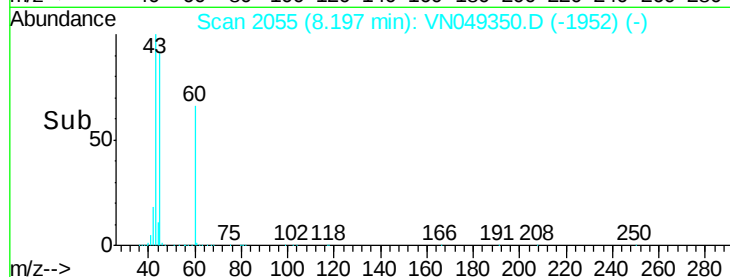
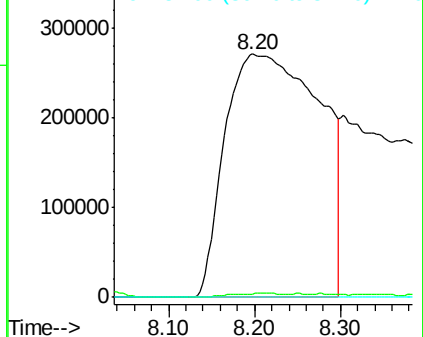
87 0.0 9.4 14.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#49

1,4-Dioxane

Concen: 1.28 ug/l

RT: 9.20 min Scan# 2367

Delta R.T. -0.00 min

Lab File: VN049350.D

Acq: 18 Jun 2018 18:13

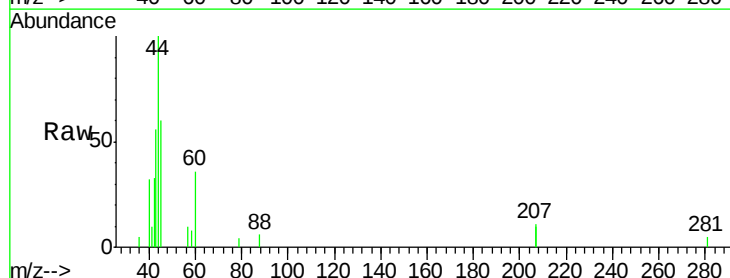
Tgt Ion: 88 Resp: 196

Ion Ratio Lower Upper

88 100

43 0.0 30.9 46.3#

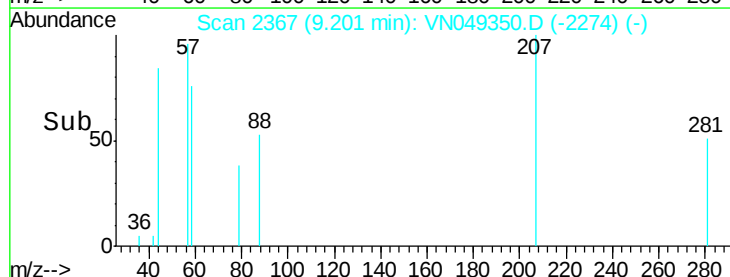
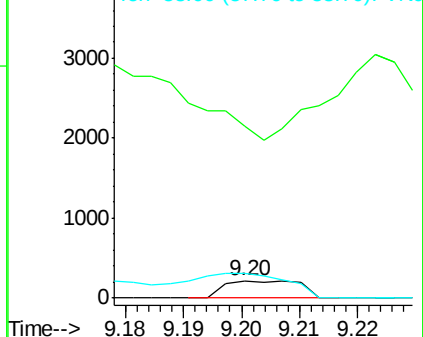
58 195.9 58.9 88.3#

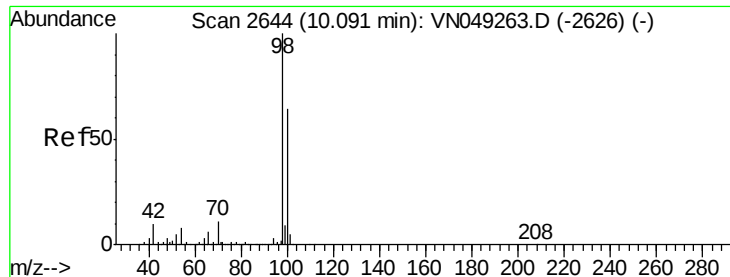


Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#50

Toluene-d8

Concen: 43.67 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN049350.D

Acq: 18 Jun 2018 18:13

Instrument :

MSVOA_N

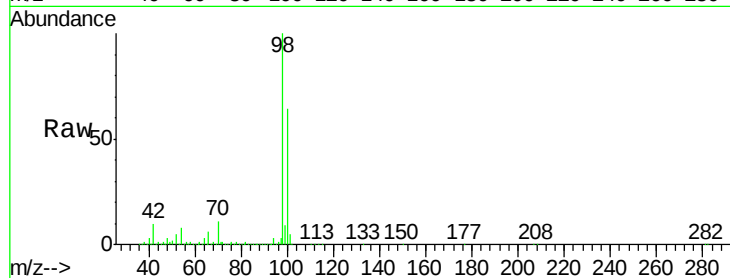
ClientSampleId :

Tot Ion: 98 Resp: 2664150

Ion Ratio Lower Upper

98 100

100 63.5 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

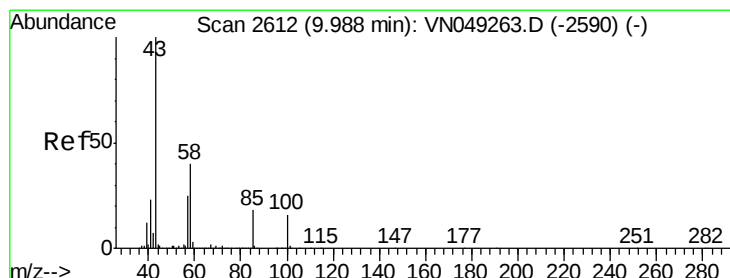
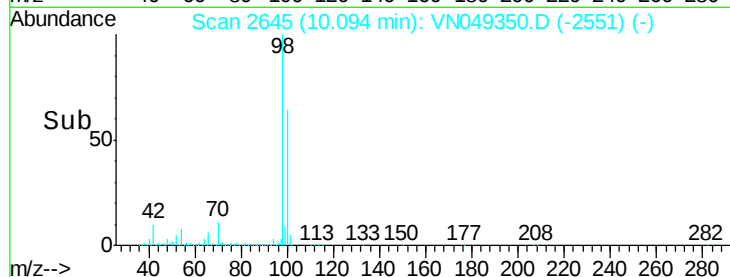
1500000

1000000

500000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.52 ug/l

RT: 9.99 min Scan# 2614

Delta R.T. 0.01 min

Lab File: VN049350.D

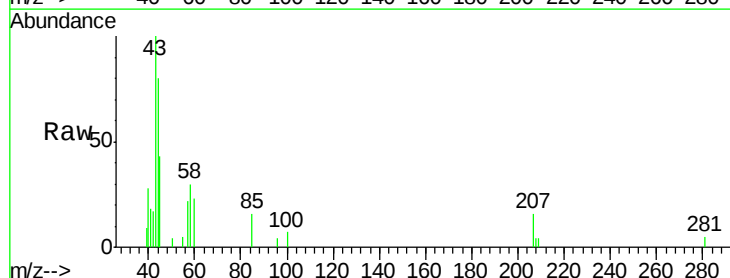
Acq: 18 Jun 2018 18:13

Tgt Ion: 43 Resp: 6372

Ion Ratio Lower Upper

43 100

58 39.0 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN049263.D (-2590) (-)

Ion 58.00 (57.70 to 58.70): VN049263.D (-2590) (-)

9.99

5000

4000

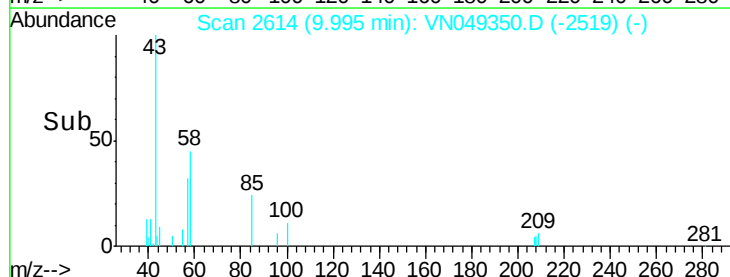
3000

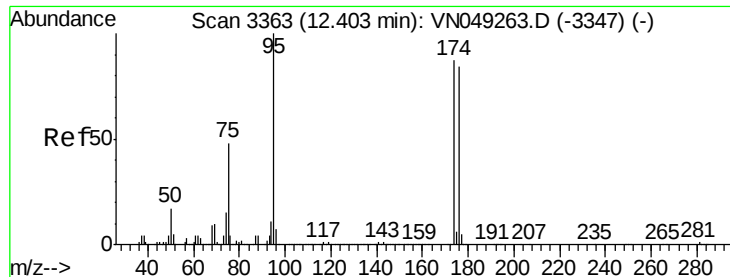
2000

1000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 35.42 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN049350.D

Acq: 18 Jun 2018 18:13

Instrument :

MSVOA_N

ClientSampled :

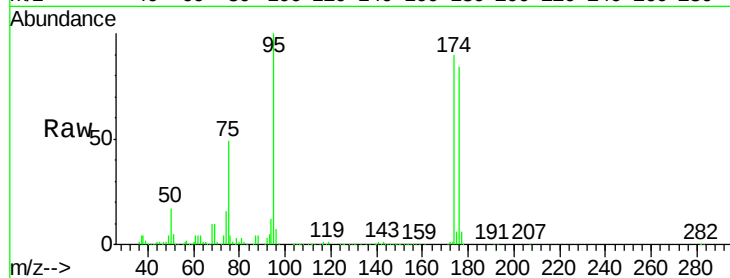
Tot Ion: 95 Resp: 714413

Ion Ratio Lower Upper

95 100

174 89.2 0.0 165.6

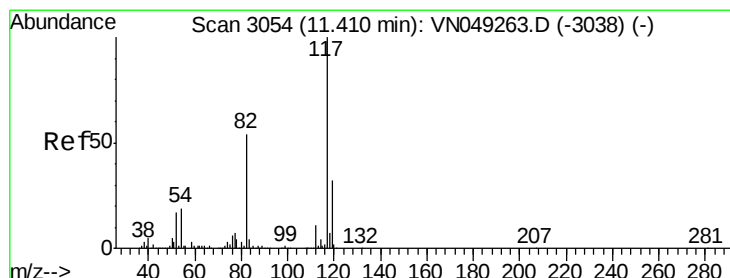
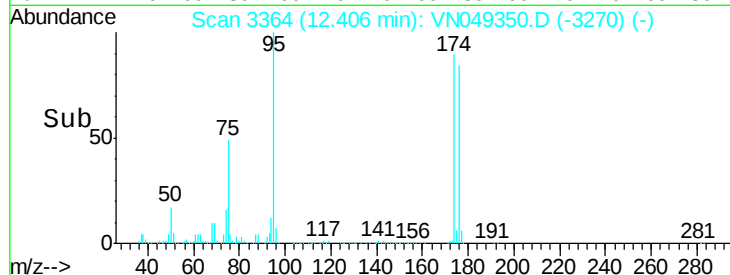
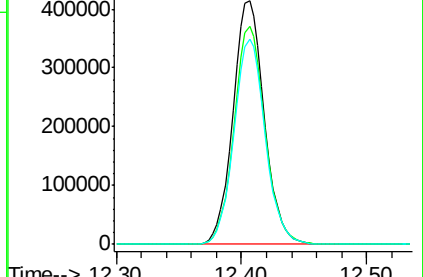
176 84.5 0.0 157.4



Abundance Ion 94.90 (94.60 to 95.60): VN049350.D (-3270) (-)

Ion 173.80 (173.50 to 174.50): VN049350.D (-3270) (-)

Ion 175.80 (175.50 to 176.50): VN049350.D (-3270) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN049350.D

Acq: 18 Jun 2018 18:13

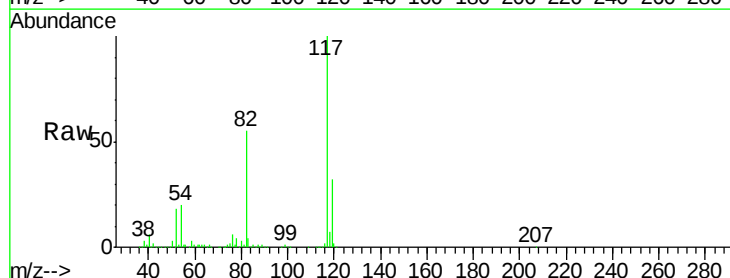
Tgt Ion: 117 Resp: 1627651

Ion Ratio Lower Upper

117 100

82 54.9 45.9 68.9

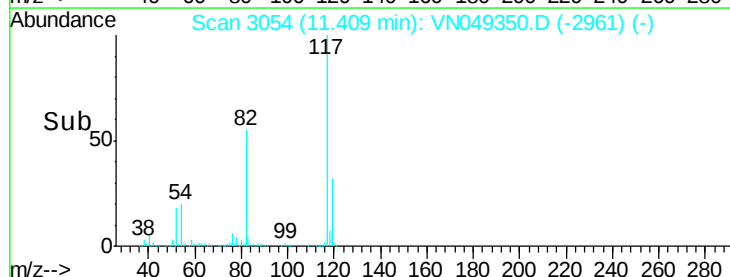
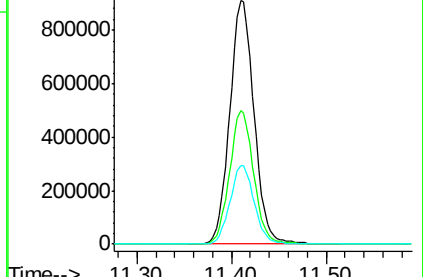
119 32.4 25.5 38.3

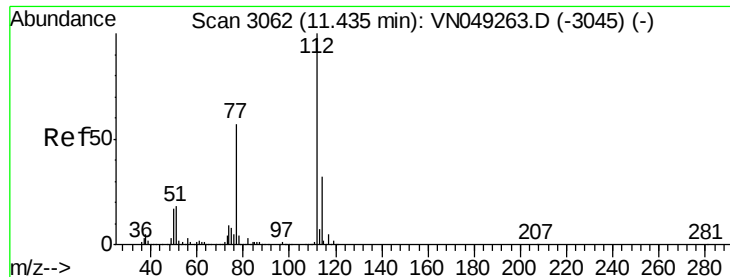


Abundance Ion 116.90 (116.60 to 117.60): VN049350.D (-2961) (-)

Ion 82.00 (81.70 to 82.70): VN049350.D (-2961) (-)

Ion 118.90 (118.60 to 119.60): VN049350.D (-2961) (-)





#65

Chlorobenzene

Concen: 0.55 ug/l

RT: 11.44 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN049350.D

Acq: 18 Jun 2018 18:13

Instrument :

MSVOA_N

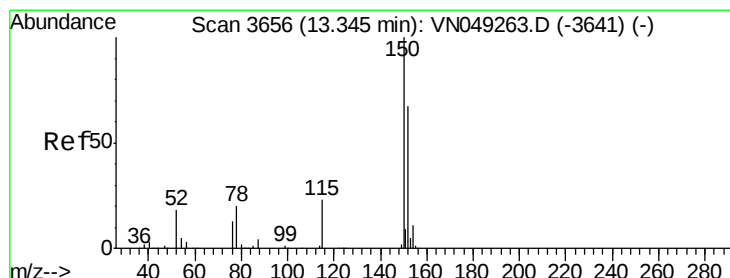
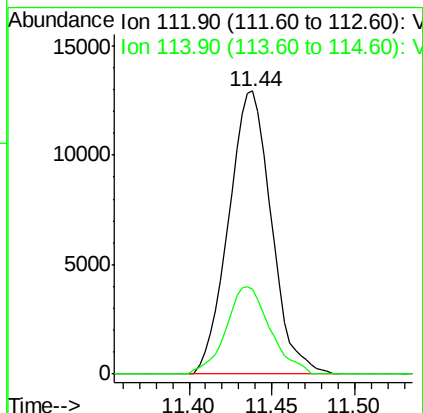
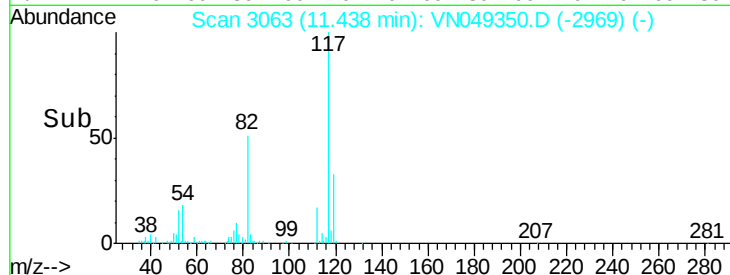
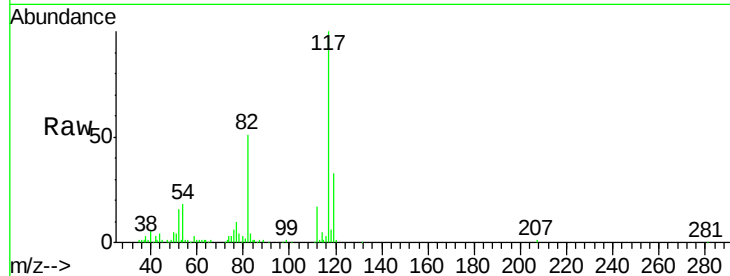
ClientSampled :

Tot Ion:112 Resp: 23168

Ion Ratio Lower Upper

112 100

114 30.0 26.2 39.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN049350.D

Acq: 18 Jun 2018 18:13

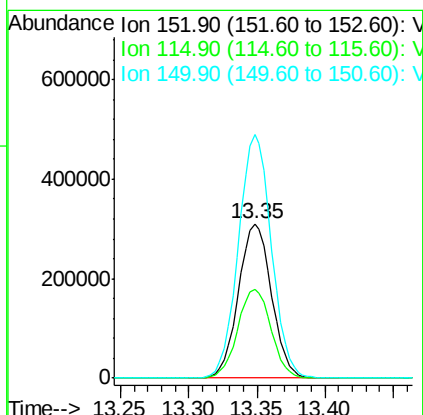
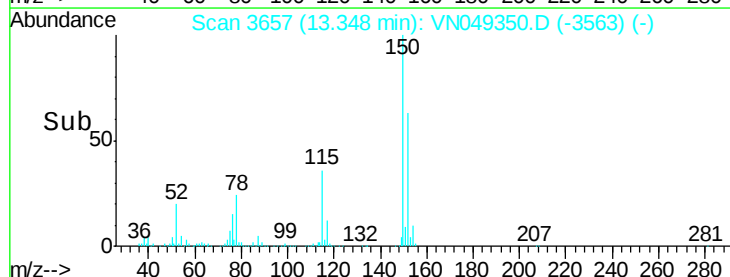
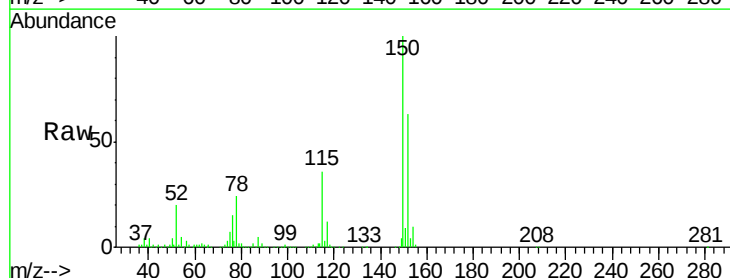
Tgt Ion:152 Resp: 522403

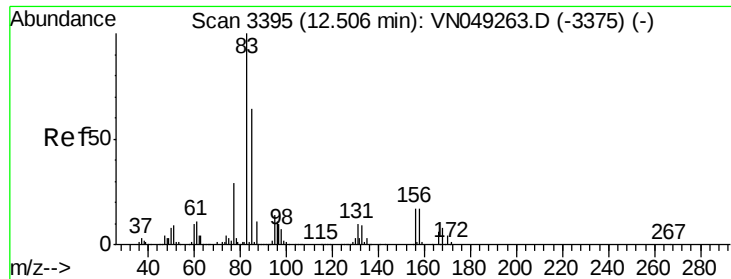
Ion Ratio Lower Upper

152 100

115 58.0 28.7 86.1

150 157.1 0.0 351.0





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3365

Delta R.T. -0.10 min

Lab File: VN049350.D

Acq: 18 Jun 2018 18:13

Instrument :

MSVOA_N

ClientSampleId :

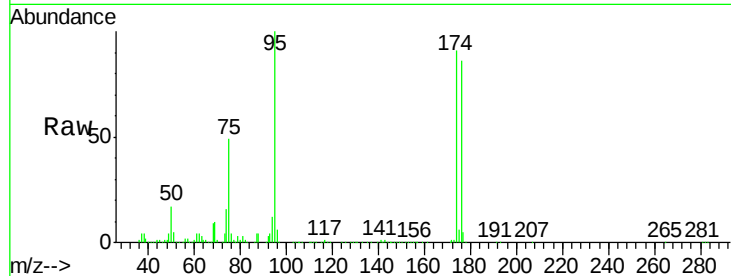
Tot Ion: 83 Resp: 619

Ion Ratio Lower Upper

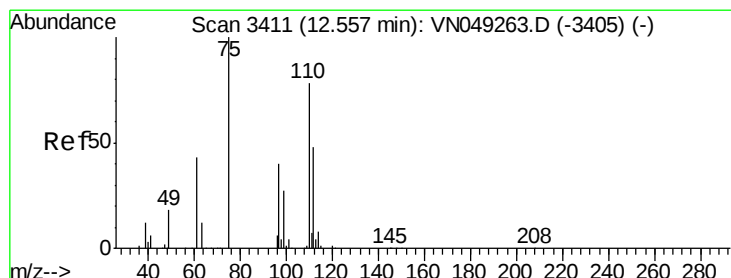
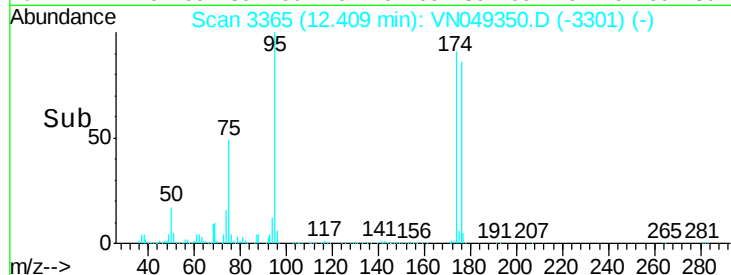
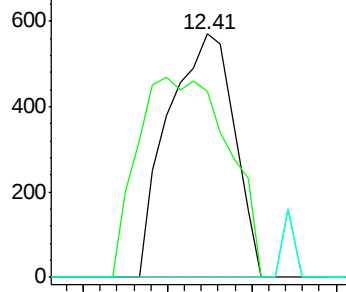
83 100

131 113.1 5.0 15.0#

85 0.0 32.0 96.0#



Abundance Ion 82.90 (82.60 to 83.60): VN049263.D (-3375) (-)



#76

1,2,3-Trichloropropane

Concen: 38.83 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. -0.15 min

Lab File: VN049350.D

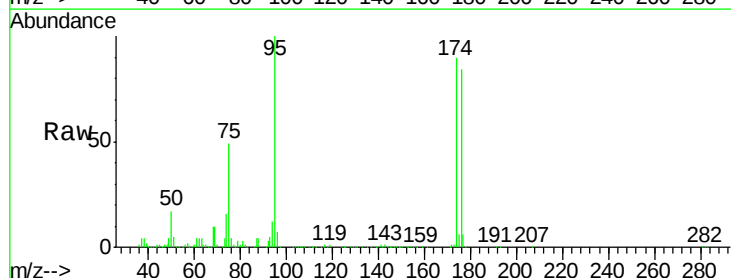
Acq: 18 Jun 2018 18:13

Tgt Ion: 75 Resp: 346077

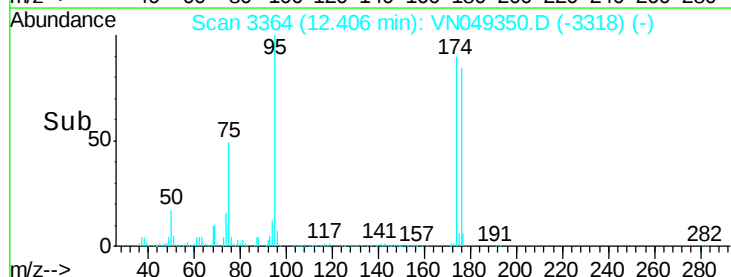
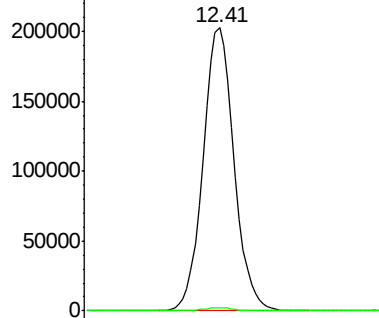
Ion Ratio Lower Upper

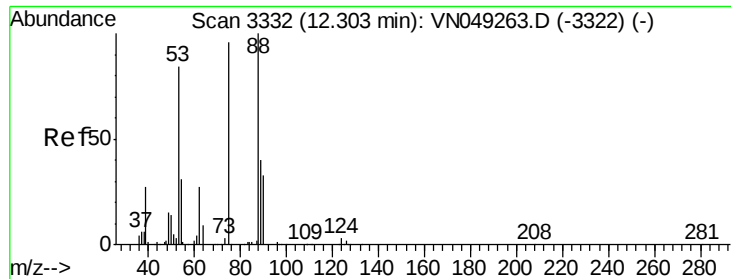
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN049263.D (-3405) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 122.71 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.10 min

Lab File: VN049350.D

Acq: 18 Jun 2018 18:13

Instrument :

MSVOA_N

ClientSampleId :

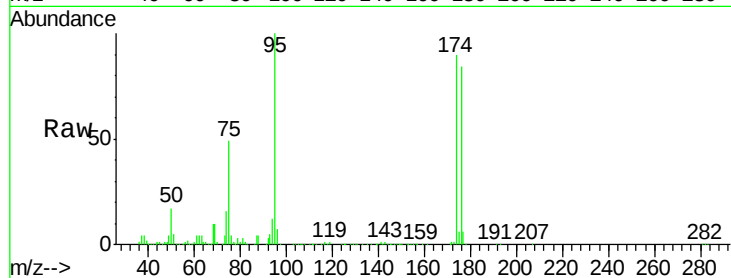
Tot Ion: 75 Resp: 346077

Ion Ratio Lower Upper

75 100

53 0.2 82.7 124.1#

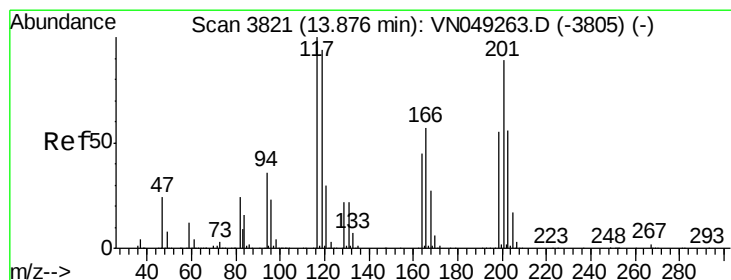
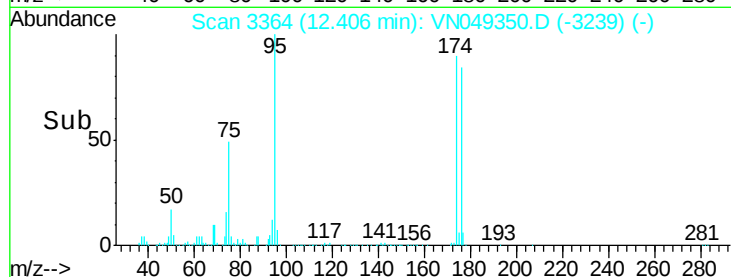
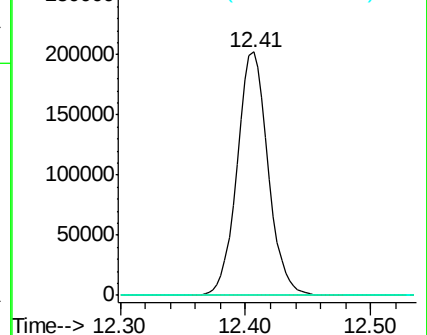
89 0.0 36.5 54.7#



Abundance Ion 74.90 (74.60 to 75.60): VN049350.D (-3364) (-)

Ion 53.00 (52.70 to 53.70): VN049350.D (-3364) (-)

Ion 88.90 (88.60 to 89.60): VN049350.D (-3364) (-)



#90

Hexachloroethane

Concen: Below Cal

RT: 14.00 min Scan# 3860

Delta R.T. 0.13 min

Lab File: VN049350.D

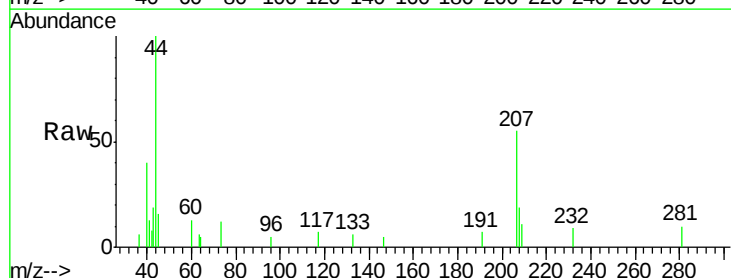
Acq: 18 Jun 2018 18:13

Tgt Ion: 117 Resp: 117

Ion Ratio Lower Upper

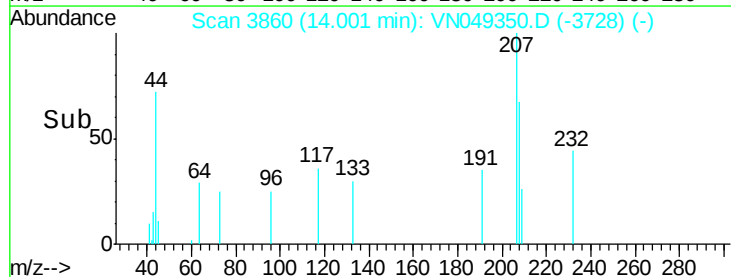
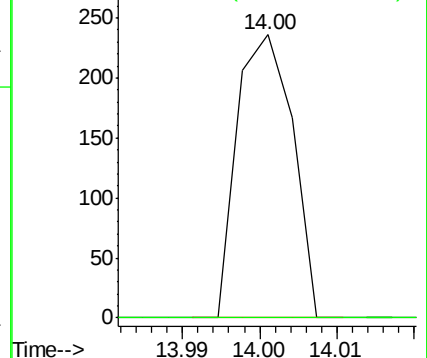
117 100

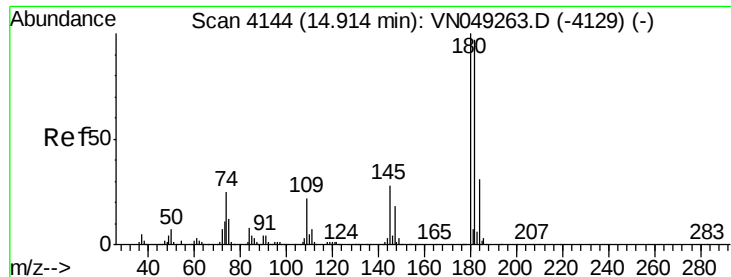
201 0.0 40.1 120.2#



Abundance Ion 116.80 (116.50 to 117.50): VN049350.D (-3821) (-)

Ion 200.70 (200.40 to 201.40): VN049350.D (-3821) (-)

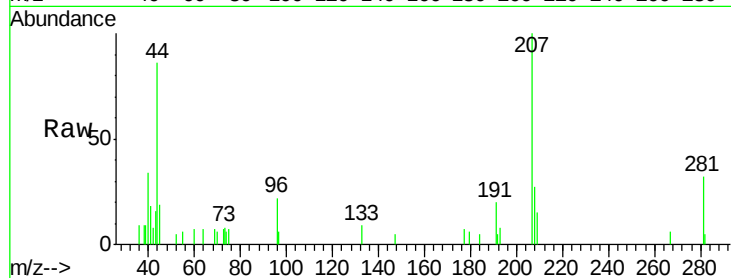




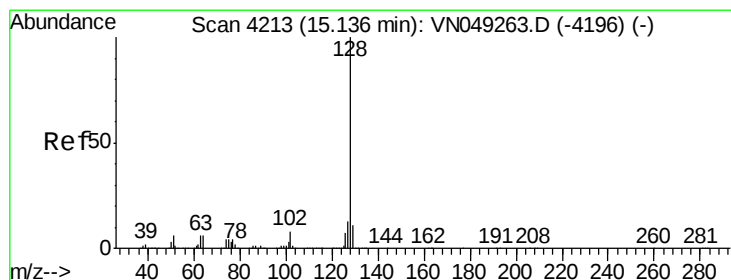
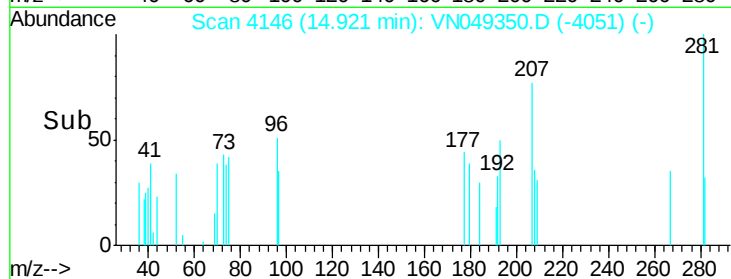
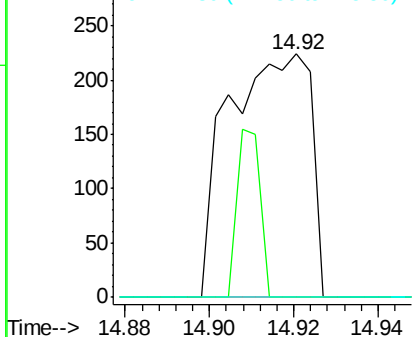
#93
 1,2,4-Trichlorobenzene
 Concen: 4.77 ug/l
 RT: 14.92 min Scan# 4146
 Delta R.T. 0.01 min
 Lab File: VN049350.D
 Acq: 18 Jun 2018 18:13

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 305
 Ion Ratio Lower Upper
 180 100
 182 19.3 46.9 140.8#
 145 0.0 14.7 44.1#

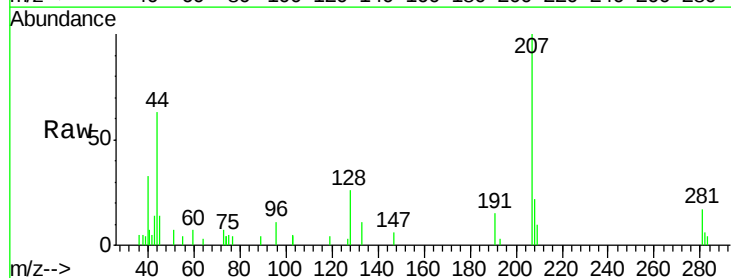


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

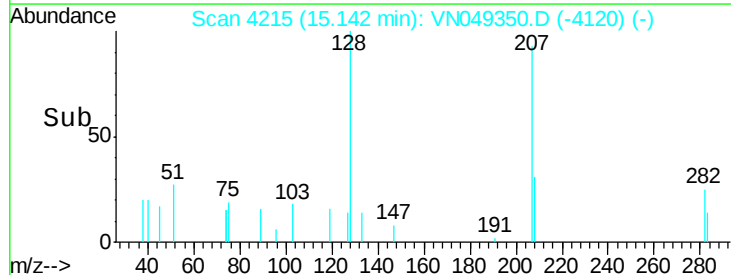
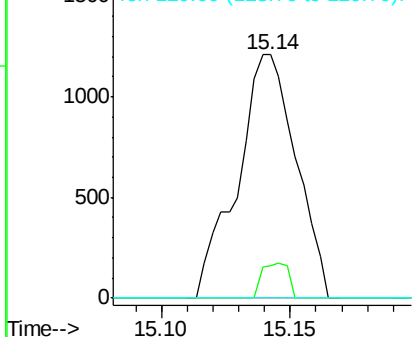


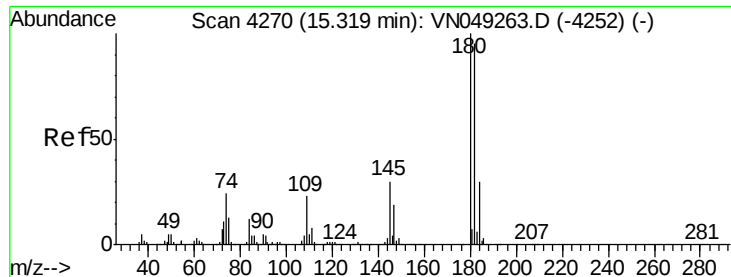
#95
 Naphthalene
 Concen: 2.21 ug/l
 RT: 15.14 min Scan# 4215
 Delta R.T. 0.01 min
 Lab File: VN049350.D
 Acq: 18 Jun 2018 18:13

Tgt Ion:128 Resp: 1927
 Ion Ratio Lower Upper
 128 100
 127 6.5 10.6 16.0#
 129 0.0 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 3.48 ug/l
 RT: 15.32 min Scan# 4271
 Delta R.T. 0.00 min
 Lab File: VN049350.D
 Acq: 18 Jun 2018 18:13

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	38.1	47.3	141.8#
145	0.0	15.6	46.7#

