

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062218\
 Data File : VN049509.D
 Acq On : 22 Jun 2018 22:49
 Operator : MD\SY
 Sample : J3570-13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 22 23:53:49 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	1531671	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2508692	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2113207	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	607013	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	1103984	54.34	ug/l	0.00
Spiked Amount			Recovery	=	108.68%	
35) Dibromofluoromethane	7.59	113	972959	47.94	ug/l	0.00
Spiked Amount			Recovery	=	95.88%	
50) Toluene-d8	10.09	98	3453208	44.68	ug/l	0.00
Spiked Amount			Recovery	=	89.36%	
62) 4-Bromofluorobenzene	12.41	95	911227	35.66	ug/l	0.00
Spiked Amount			Recovery	=	71.32%	

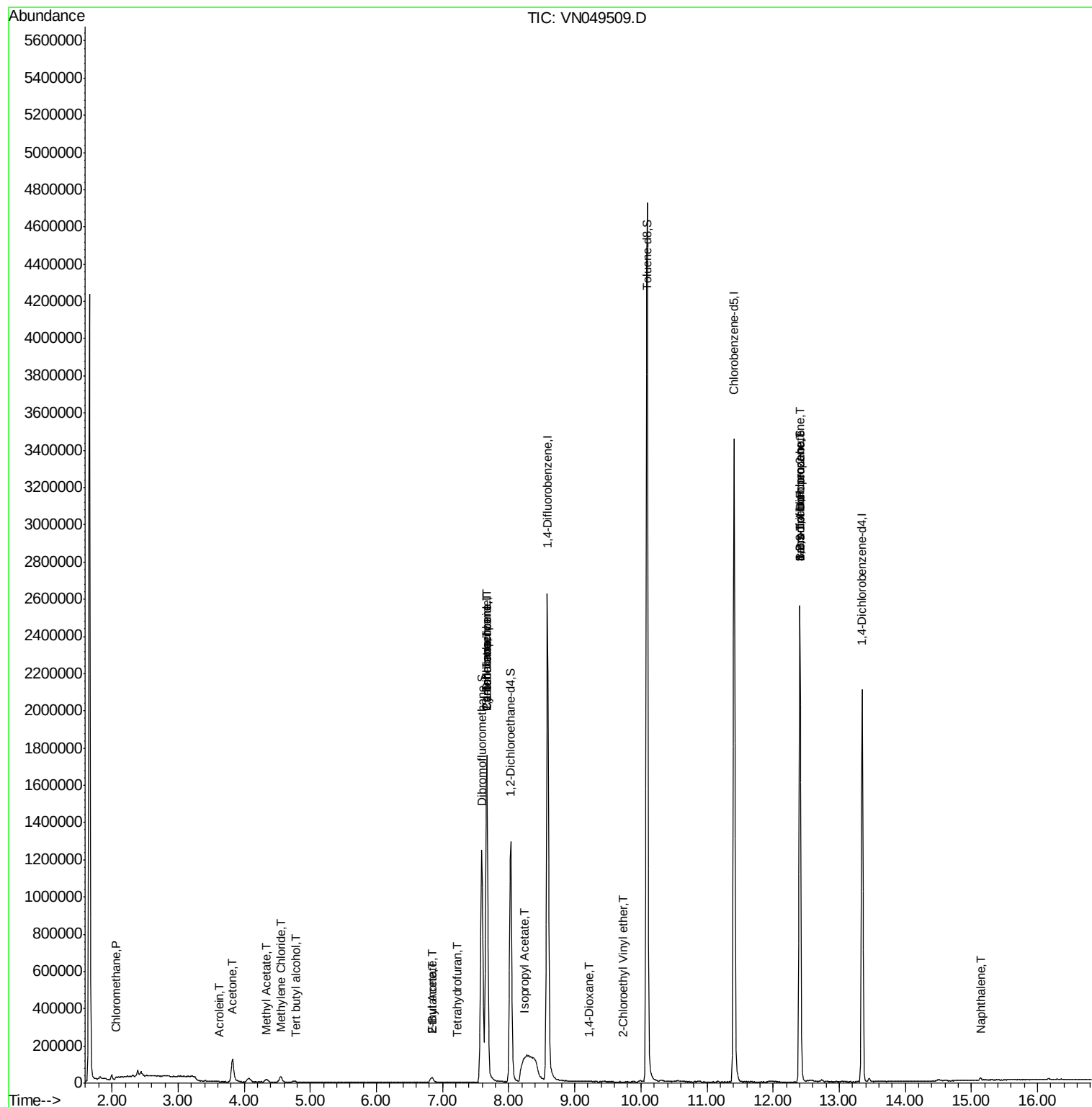
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	7485	0.33	ug/l	93
11) Tert butyl alcohol	4.79	59	434	0.36	ug/l #	70
13) Acrolein	3.62	56	288	0.23	ug/l #	9
16) Acetone	3.82	43	208842	42.34	ug/l	96
18) Methyl Acetate	4.33	43	28490	1.89	ug/l #	88
20) Methylene Chloride	4.55	84	21384	1.04	ug/l	93
25) 2-Butanone	6.85	43	15501	2.34	ug/l #	87
29) Tetrahydrofuran	7.23	42	1293	0.30	ug/l #	59
31) Cyclohexane	7.67	56	27271	0.73	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	108635	3.78	ug/l #	51
37) Ethyl Acetate	6.85	43	15501	0.99	ug/l #	70
38) Carbon Tetrachloride	7.67	117	138961	4.67	ug/l #	16
43) Isopropyl Acetate	8.23	43	126240	4.23	ug/l #	65
49) 1,4-Dioxane	9.20	88	78	0.40	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.74	63	30	14.33	ug/l #	51
71) Bromoform	12.40	173	6297	0.47	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.50	83	31	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.41	75	440031	42.49	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	440031	134.28	ug/l #	9
90) Hexachloroethane	14.01	117	30	Below Cal	#	9
95) Naphthalene	15.14	128	10160	2.68	ug/l	98

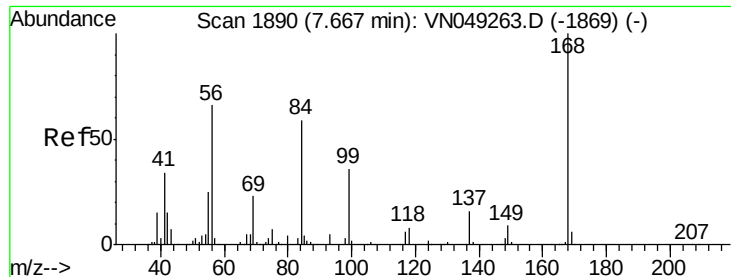
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN062218\
Data File : VN049509.D
Acq On : 22 Jun 2018 22:49
Operator : MD\SY
Sample : J3570-13
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Jun 22 23:53:49 2018
Quant Method : Z:\V0ASRV\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# 1891

Delta R.T. 0.00 min

Lab File: VN049509.D

Acq: 22 Jun 2018 22:49

Instrument :

MSVOA_N

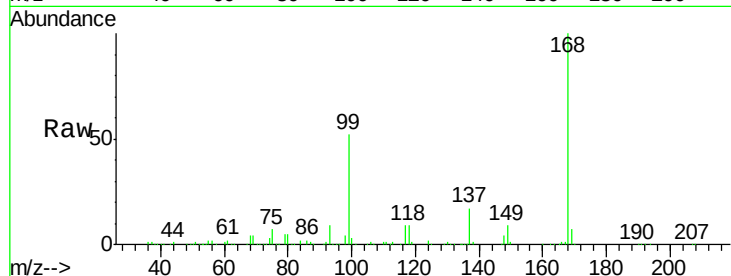
ClientSampled :

Tot Ion:168 Resp: 1531671

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): VN

7.67

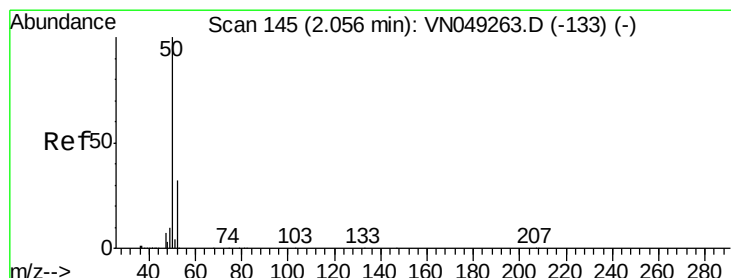
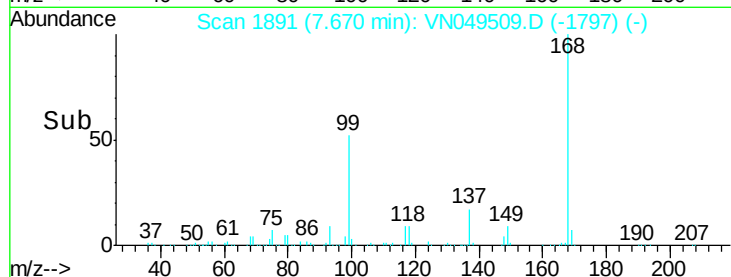
600000

400000

200000

0

Time--> 7.50 7.60 7.70 7.80



#3

Chloromethane

Concen: 0.33 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN049509.D

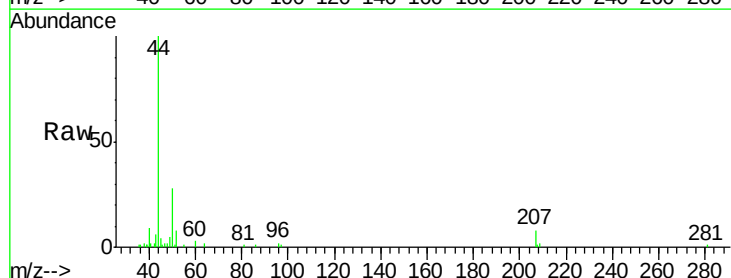
Acq: 22 Jun 2018 22:49

Tgt Ion: 50 Resp: 7485

Ion Ratio Lower Upper

50 100

52 27.8 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.06

5000

4000

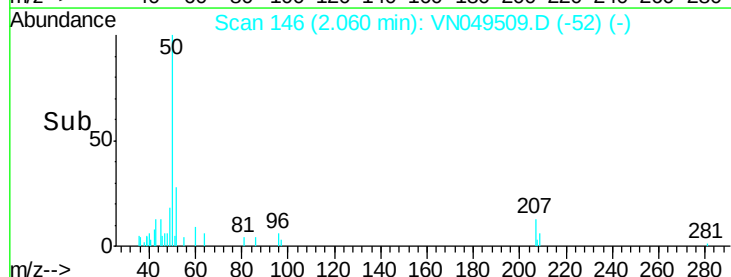
3000

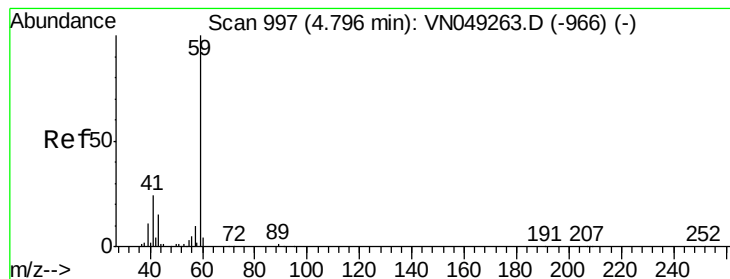
2000

1000

0

Time--> 2.00 2.05 2.10





#11

Tert butyl alcohol

Concen: 0.36 ug/l

RT: 4.79 min Scan# 994

Delta R.T. -0.01 min

Lab File: VN049509.D

Acq: 22 Jun 2018 22:49

Instrument :

MSVOA_N

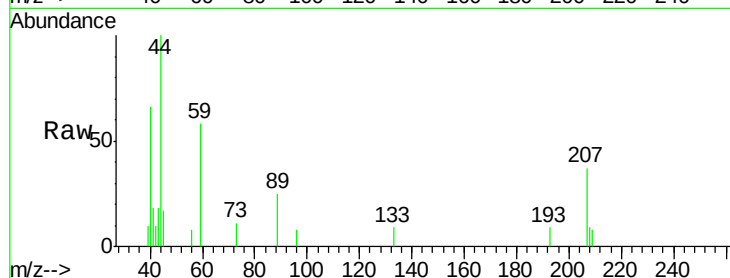
ClientSampled :

Tot Ion: 59 Resp: 434

Ion Ratio Lower Upper

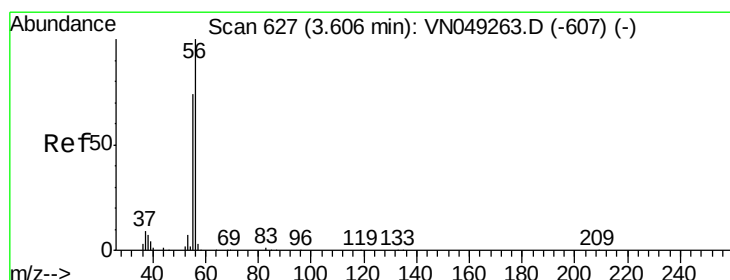
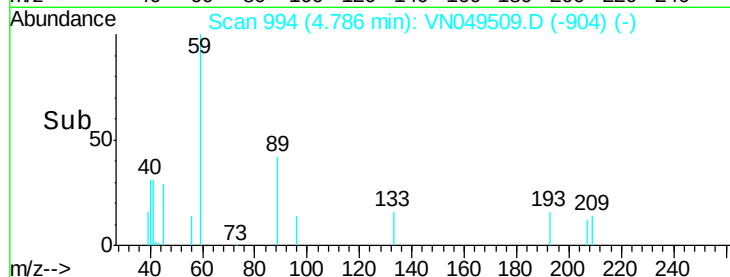
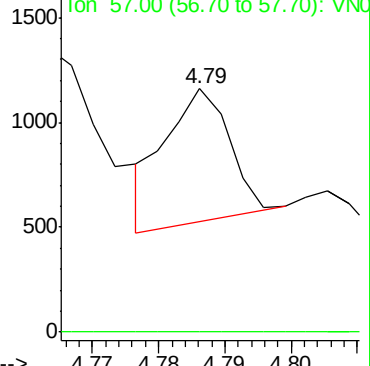
59 100

57 0.0 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#13

Acrolein

Concen: 0.23 ug/l

RT: 3.62 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN049509.D

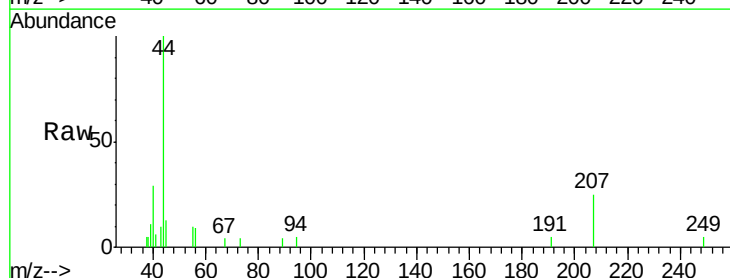
Acq: 22 Jun 2018 22:49

Tgt Ion: 56 Resp: 288

Ion Ratio Lower Upper

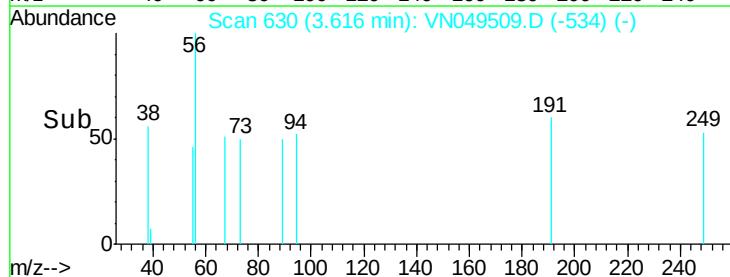
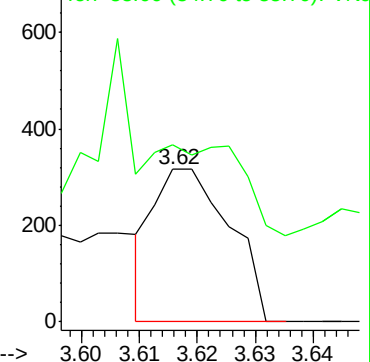
56 100

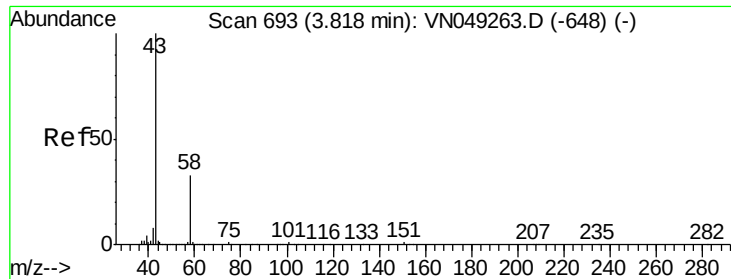
55 147.2 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#16

Acetone

Concen: 42.34 ug/l

RT: 3.82 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN049509.D

Acq: 22 Jun 2018 22:49

Instrument :

MSVOA_N

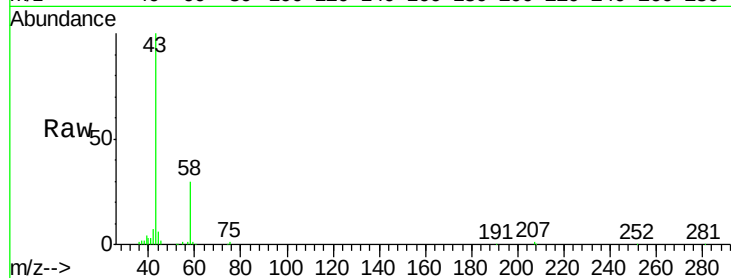
ClientSampleId :

Tot Ion: 43 Resp: 208842

Ion Ratio Lower Upper

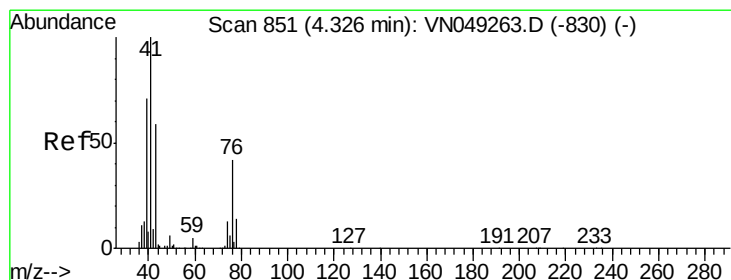
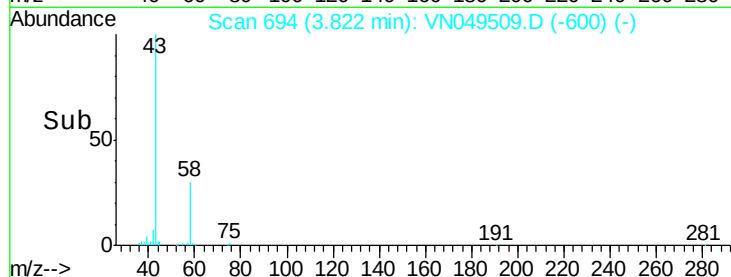
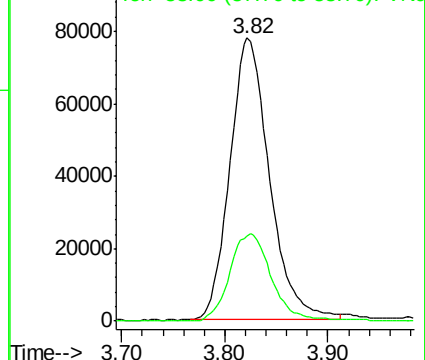
43 100

58 30.0 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.89 ug/l

RT: 4.33 min Scan# 852

Delta R.T. 0.00 min

Lab File: VN049509.D

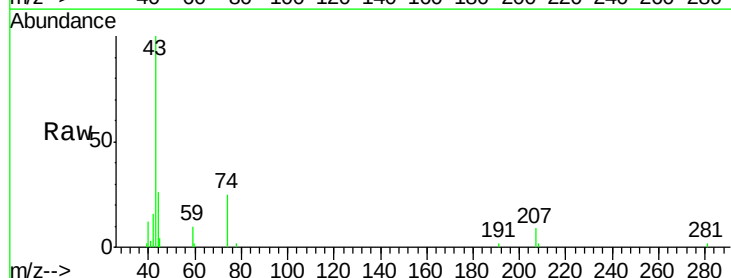
Acq: 22 Jun 2018 22:49

Tgt Ion: 43 Resp: 28490

Ion Ratio Lower Upper

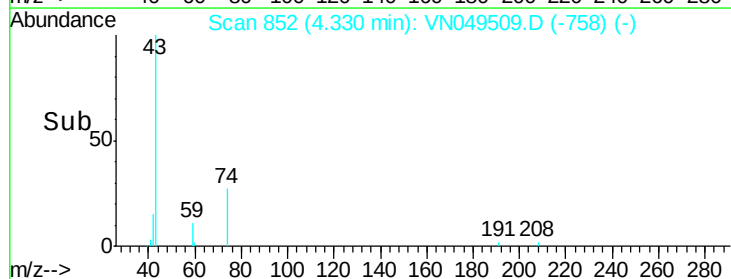
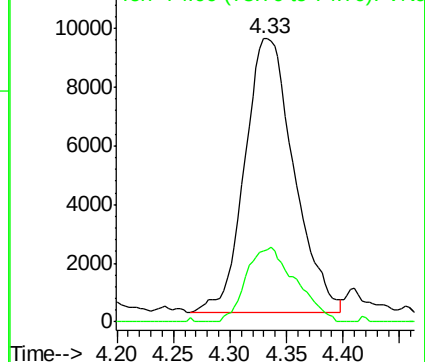
43 100

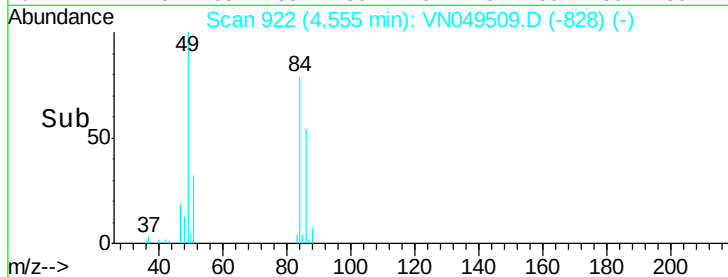
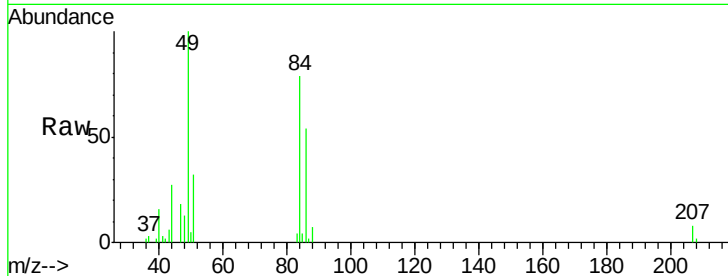
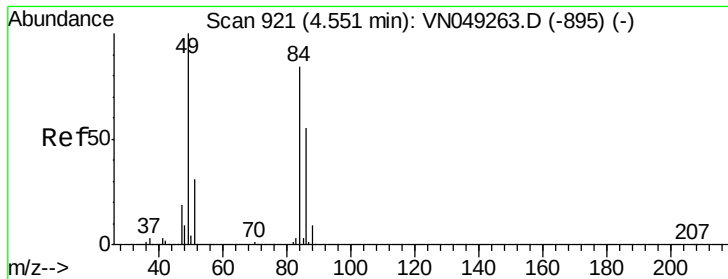
74 27.2 17.4 26.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

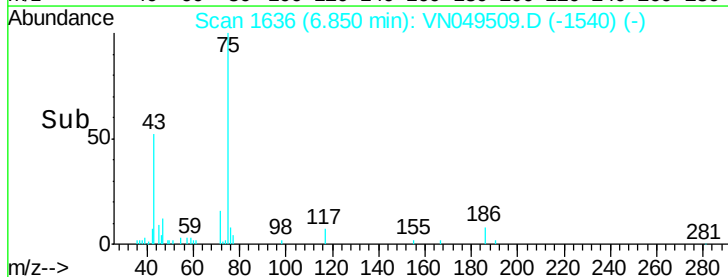
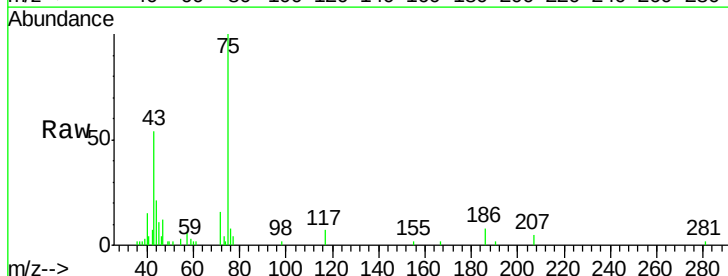
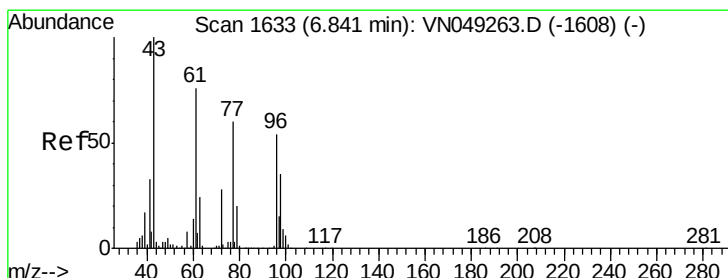
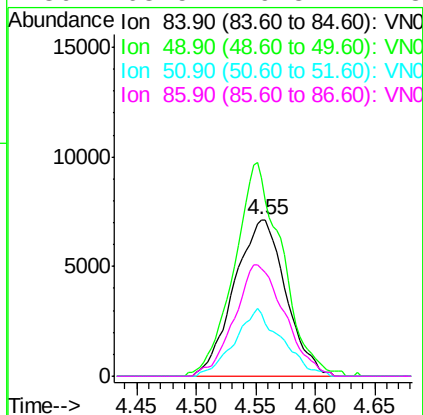




#20
Methylene Chloride
Concen: 1.04 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN049509.D
Acq: 22 Jun 2018 22:49

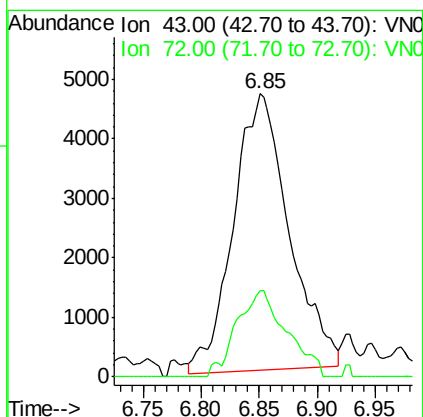
Instrument :
MSVOA_N
ClientSampleId :

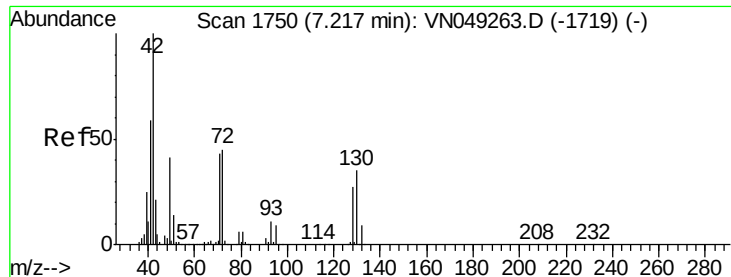
Tot Ion:	84	Resp:	21384
Ion	Ratio	Lower	Upper
84	100		
49	124.4	106.9	160.3
51	40.5	32.7	49.1
86	68.5	49.8	74.8



#25
2-Butanone
Concen: 2.34 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN049509.D
Acq: 22 Jun 2018 22:49

Tgt Ion:	43	Resp:	15501
Ion	Ratio	Lower	Upper
43	100		
72	32.0	20.2	30.2#

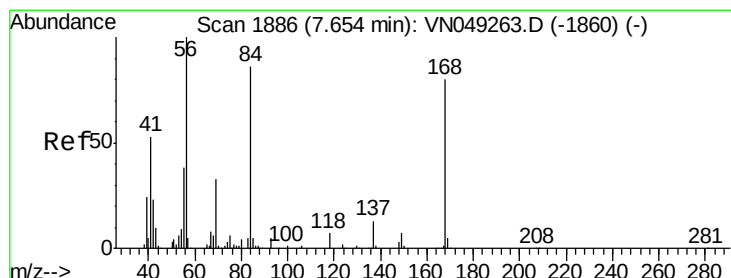
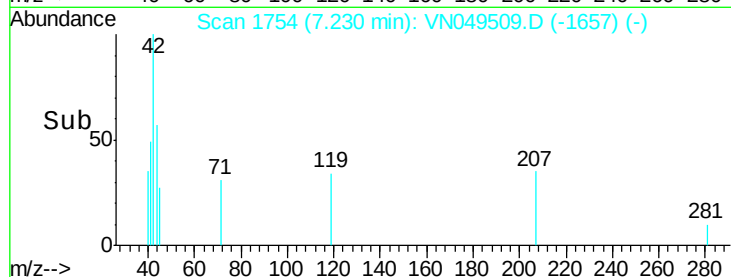
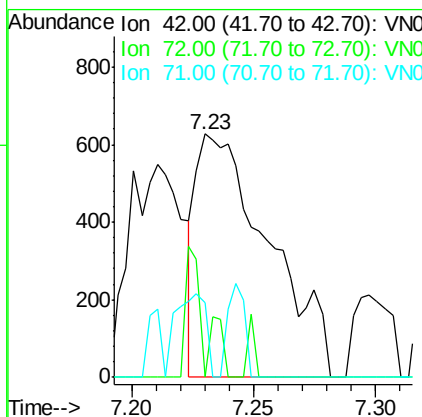
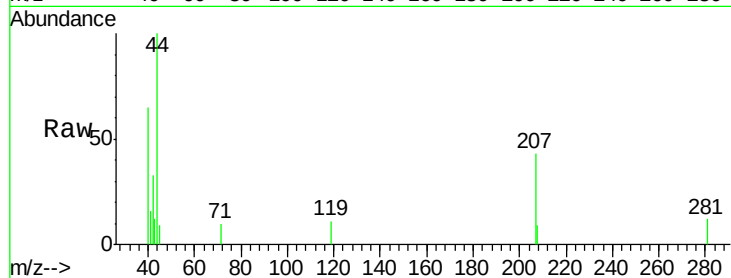




#29
Tetrahydrofuran
Concen: 0.30 ug/l
RT: 7.23 min Scan# 1754
Delta R.T. 0.01 min
Lab File: VN049509.D
Acq: 22 Jun 2018 22:49

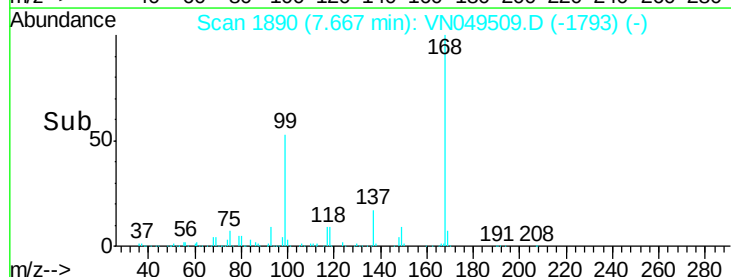
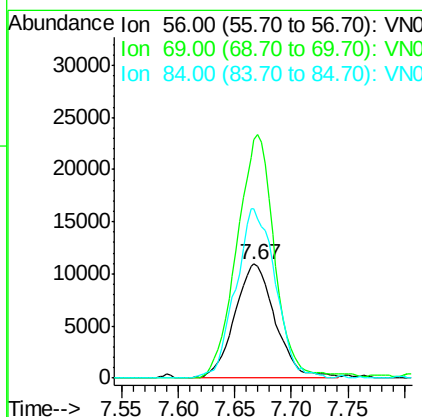
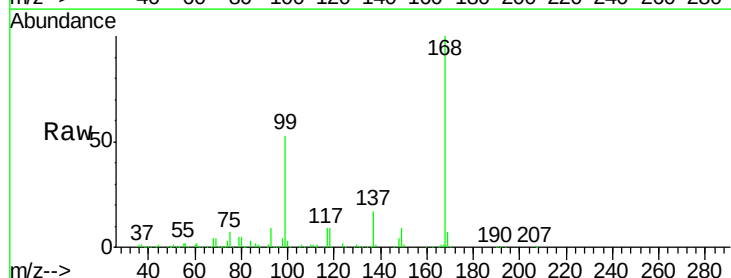
Instrument :
MSVOA_N
ClientSampleId :

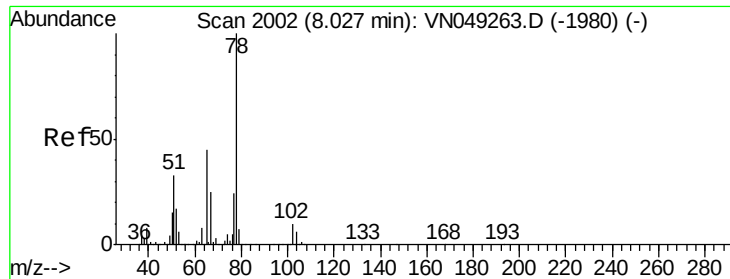
Tot Ion: 42 Resp: 1293
Ion Ratio Lower Upper
42 100
72 14.2 32.2 48.4#
71 14.2 30.5 45.7#



#31
Cyclohexane
Concen: 0.73 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN049509.D
Acq: 22 Jun 2018 22:49

Tgt Ion: 56 Resp: 27271
Ion Ratio Lower Upper
56 100
69 208.4 25.0 37.4#
84 147.9 64.6 96.8#





#33

1,2-Dichloroethane-d4

Concen: 54.34 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049509.D

Acq: 22 Jun 2018 22:49

Instrument :

MSVOA_N

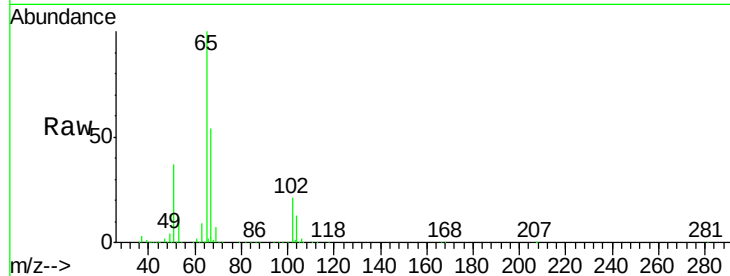
ClientSampleId :

Tot Ion: 65 Resp: 1103984

Ion Ratio Lower Upper

65 100

67 53.6 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN049509.D (-1909) (-)

Ion 66.90 (66.60 to 67.60): VN049509.D (-1909) (-)

8.03

500000

400000

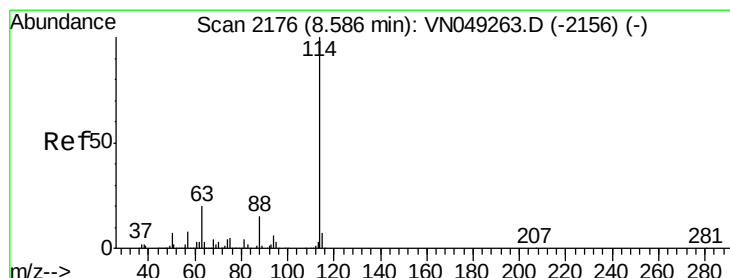
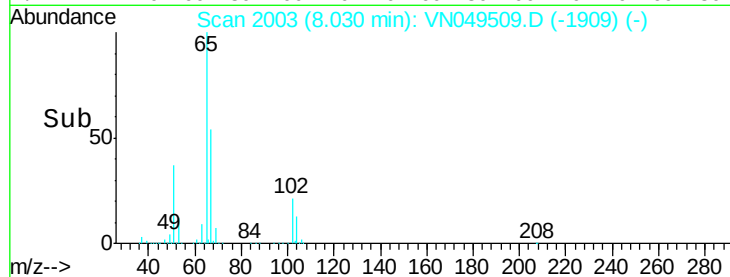
300000

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: VN049509.D

Acq: 22 Jun 2018 22:49

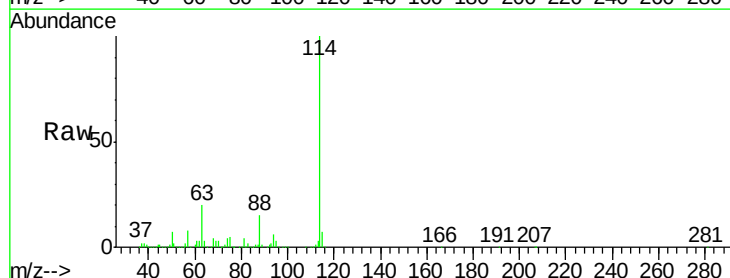
Tgt Ion: 114 Resp: 2508692

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): VN049509.D (-2083) (-)

Ion 63.00 (62.70 to 63.70): VN049509.D (-2083) (-)

Ion 87.90 (87.60 to 88.60): VN049509.D (-2083) (-)

8.59

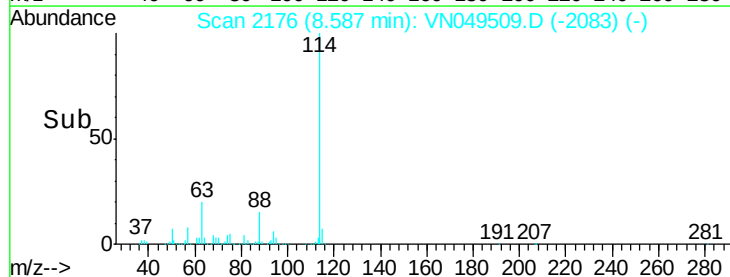
1500000

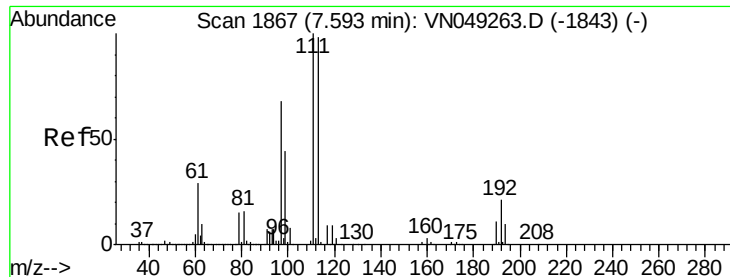
1000000

500000

0

Time--> 8.50 8.60 8.70 8.80

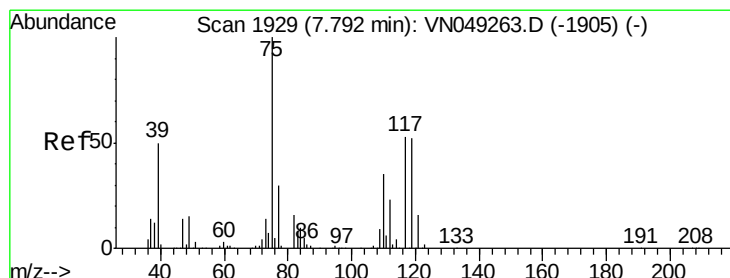
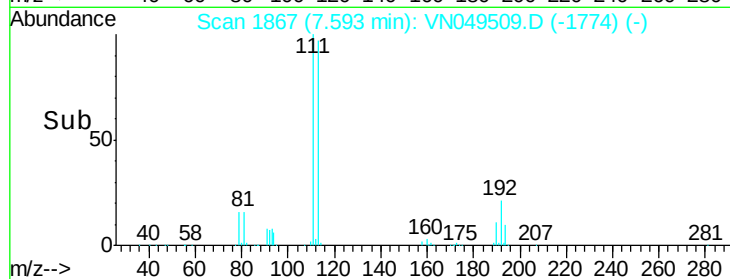
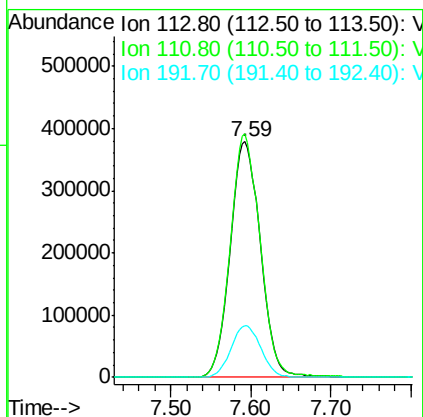
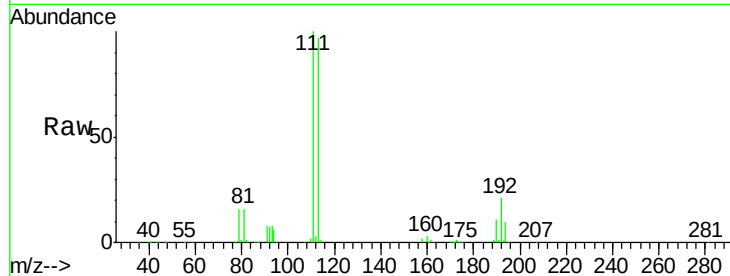




#35
Dibromofluoromethane
Concen: 47.94 ug/l
RT: 7.59 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN049509.D
Acq: 22 Jun 2018 22:49

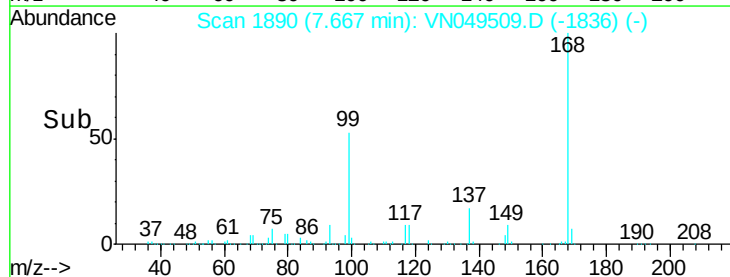
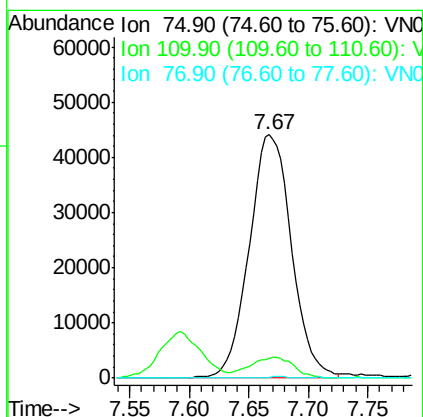
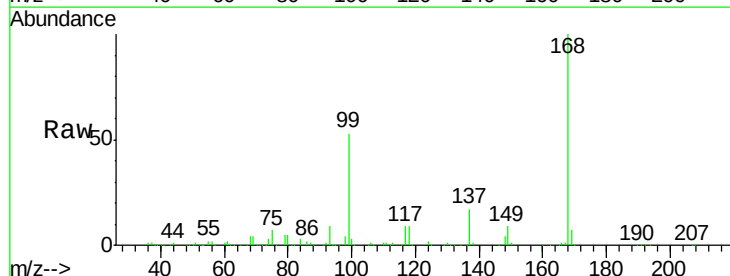
Instrument :
MSVOA_N
ClientSampled :

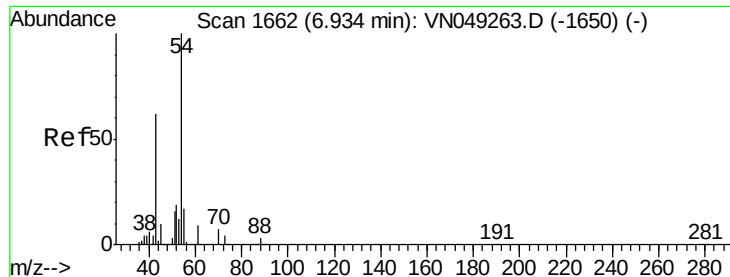
Tot Ion:113 Resp: 972959
Ion Ratio Lower Upper
113 100
111 101.9 82.4 123.6
192 21.7 15.0 22.6



#36
1,1-Dichloropropene
Concen: 3.78 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.13 min
Lab File: VN049509.D
Acq: 22 Jun 2018 22:49

Tgt Ion: 75 Resp: 108635
Ion Ratio Lower Upper
75 100
110 8.9 17.0 50.9#
77 0.2 24.4 36.6#

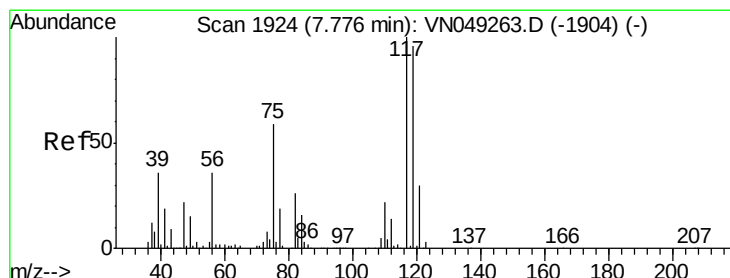
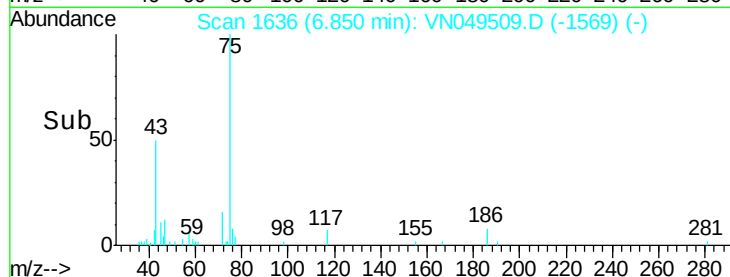
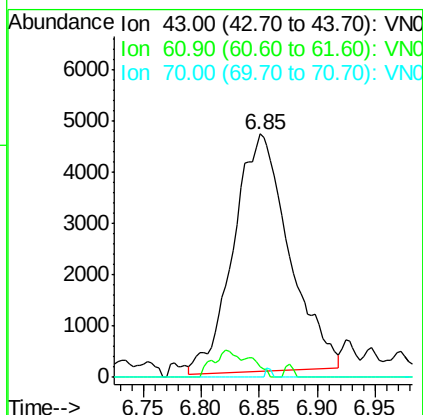
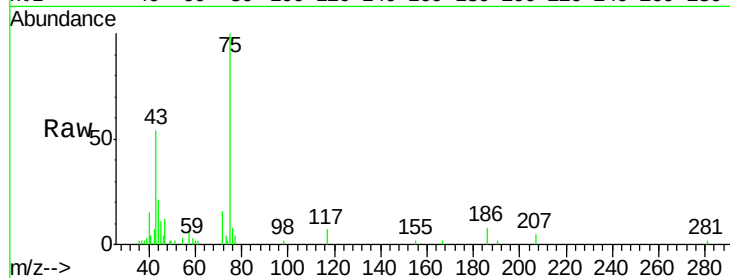




#37
Ethyl Acetate
Concen: 0.99 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. -0.08 min
Lab File: VN049509.D
Acq: 22 Jun 2018 22:49

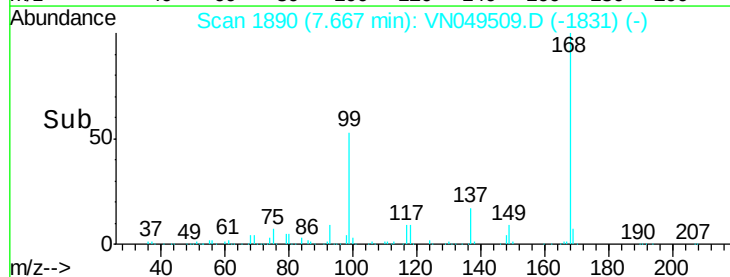
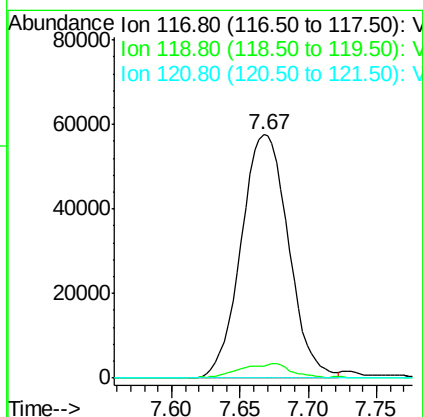
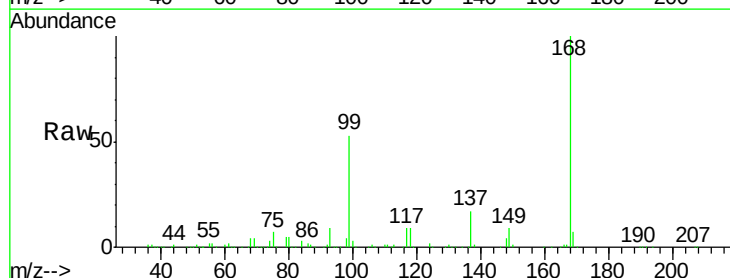
Instrument :
MSVOA_N
ClientSampleId :

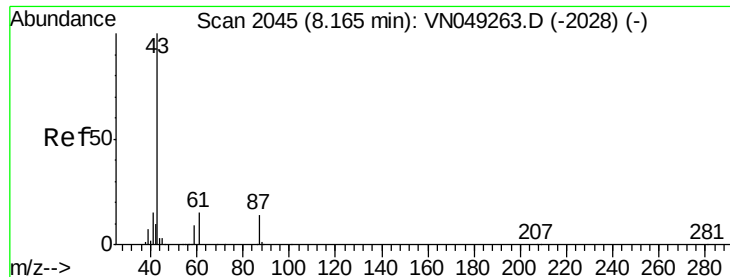
Tot Ion: 43 Resp: 15501
Ion Ratio Lower Upper
43 100
61 0.0 11.0 16.4#
70 0.4 7.2 10.8#



#38
Carbon Tetrachloride
Concen: 4.67 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN049509.D
Acq: 22 Jun 2018 22:49

Tgt Ion: 117 Resp: 138961
Ion Ratio Lower Upper
117 100
119 4.9 75.6 113.4#
121 0.0 24.7 37.1#





#43

Isopropyl Acetate

Concen: 4.23 ug/l

RT: 8.23 min Scan# 2065

Delta R.T. 0.06 min

Lab File: VN049509.D

Acq: 22 Jun 2018 22:49

Instrument :

MSVOA_N

ClientSampled :

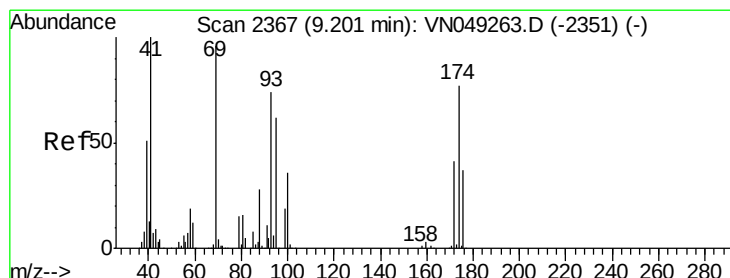
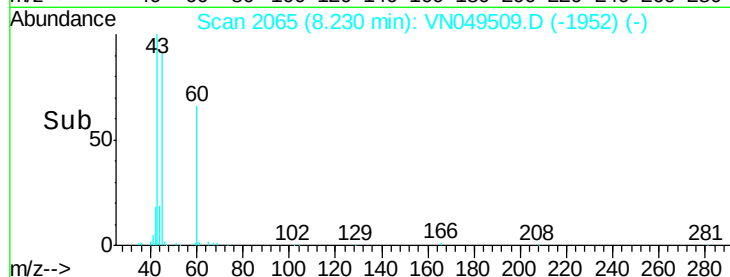
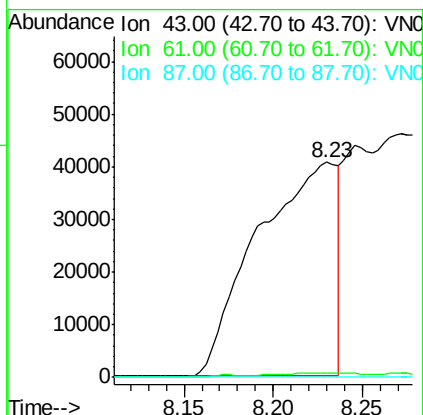
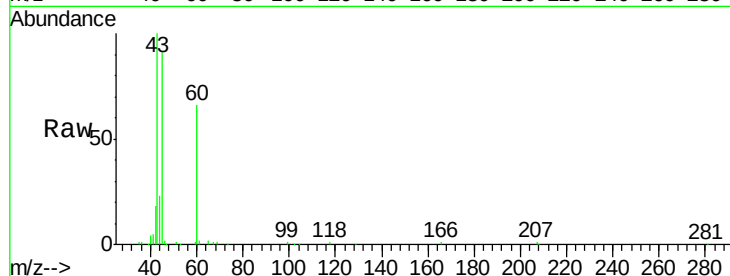
Tot Ion: 43 Resp: 126240

Ion Ratio Lower Upper

43 100

61 0.8 14.2 21.4#

87 0.0 9.4 14.0#



#49

1,4-Dioxane

Concen: 0.40 ug/l

RT: 9.20 min Scan# 2368

Delta R.T. 0.00 min

Lab File: VN049509.D

Acq: 22 Jun 2018 22:49

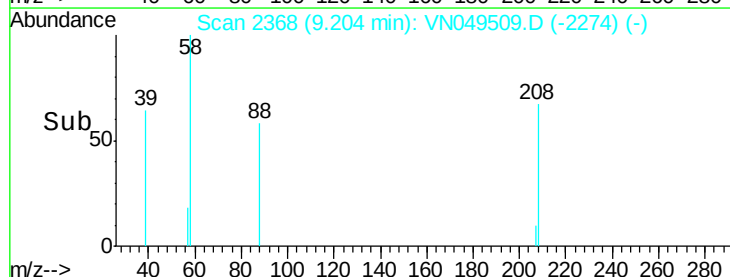
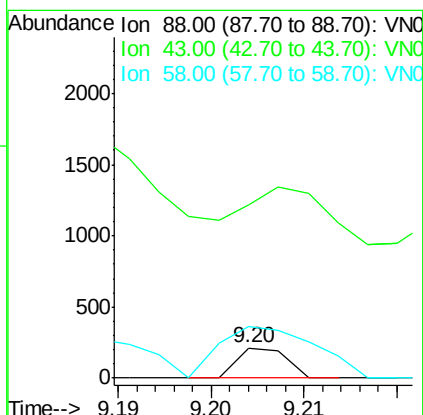
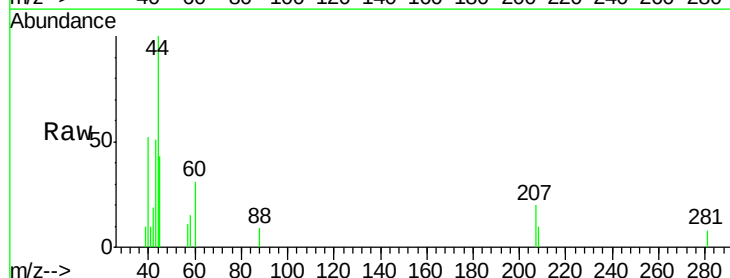
Tgt Ion: 88 Resp: 78

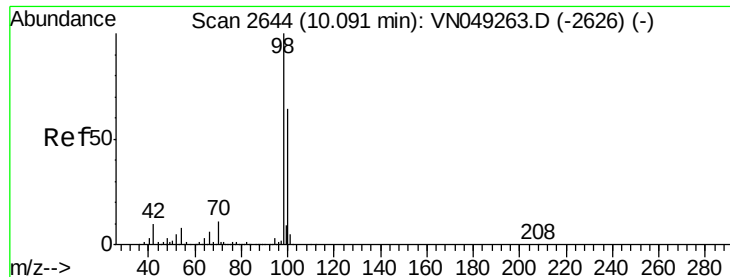
Ion Ratio Lower Upper

88 100

43 293.6 30.9 46.3#

58 335.9 58.9 88.3#

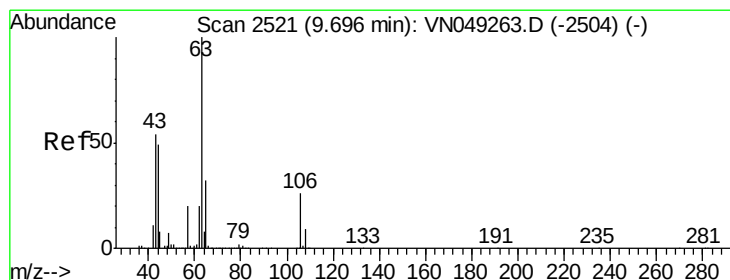
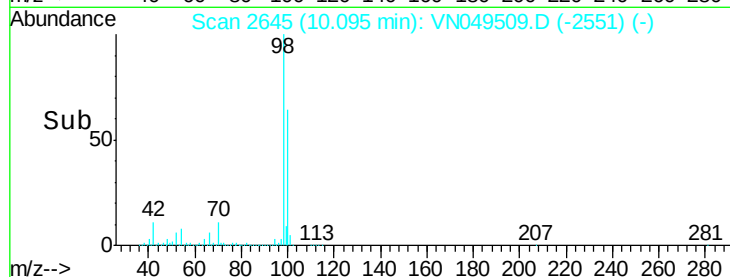
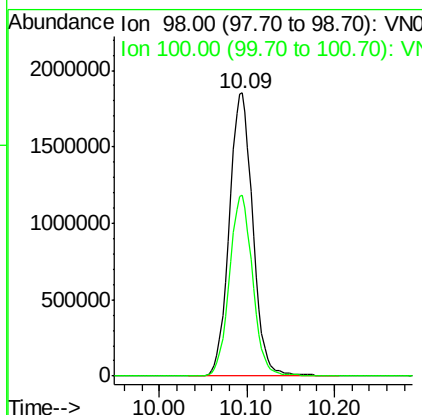
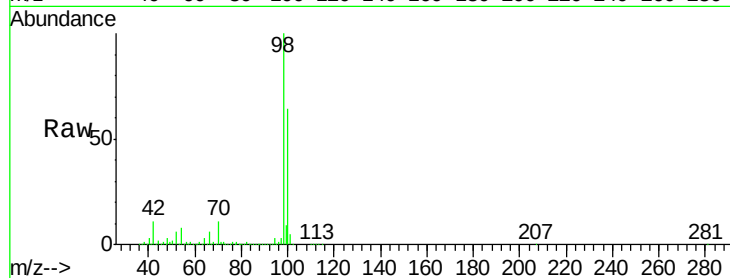




#50
Toluene-d8
Concen: 44.68 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN049509.D
Acq: 22 Jun 2018 22:49

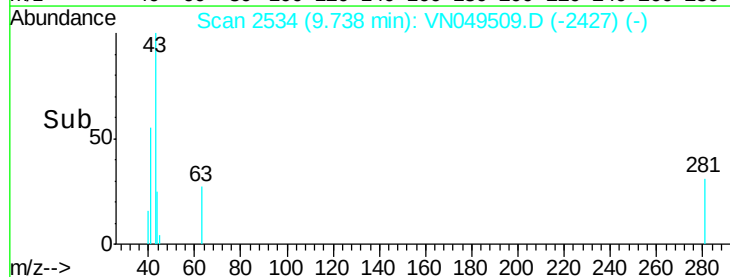
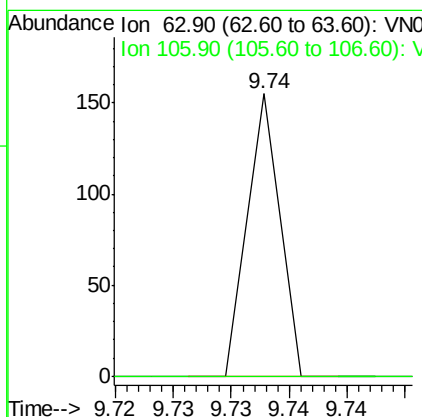
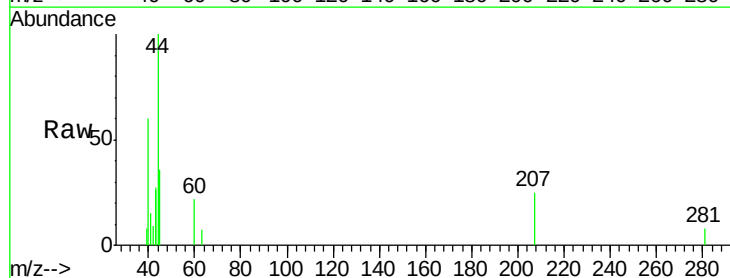
Instrument :
MSVOA_N
ClientSampled :

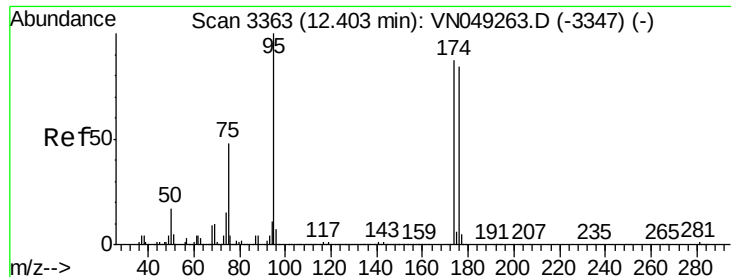
Tot Ion: 98 Resp: 3453208
Ion Ratio Lower Upper
98 100
100 63.3 49.8 74.8



#58
2-Chloroethyl Vinyl ether
Concen: 14.33 ug/l
RT: 9.74 min Scan# 2534
Delta R.T. 0.04 min
Lab File: VN049509.D
Acq: 22 Jun 2018 22:49

Tgt Ion: 63 Resp: 30
Ion Ratio Lower Upper
63 100
106 0.0 19.4 29.2#





#62

4-Bromofluorobenzene

Concen: 35.66 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN049509.D

Acq: 22 Jun 2018 22:49

Instrument :

MSVOA_N

ClientSampleId :

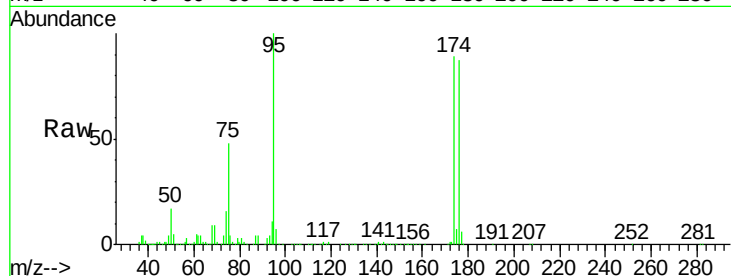
Tot Ion: 95 Resp: 911227

Ion Ratio Lower Upper

95 100

174 88.5 0.0 165.6

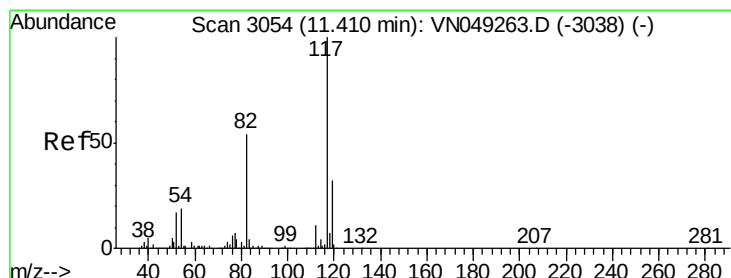
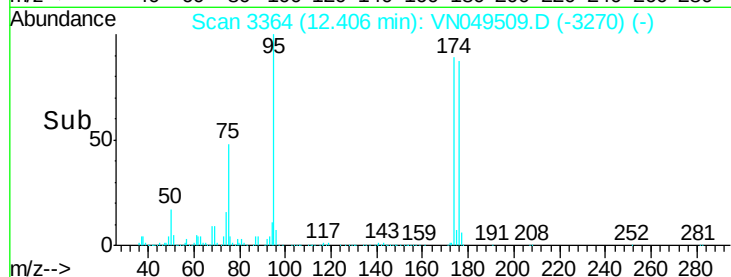
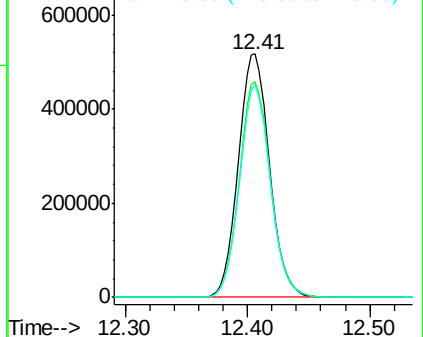
176 85.9 0.0 157.4



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: VN049509.D

Acq: 22 Jun 2018 22:49

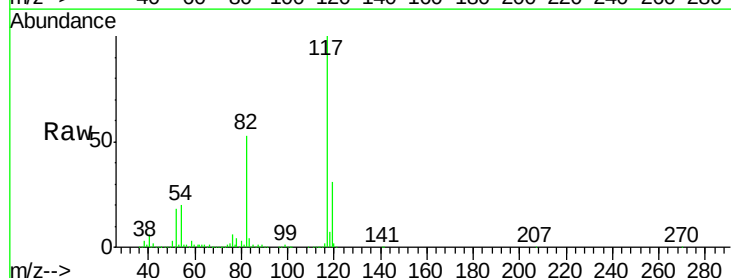
Tgt Ion: 117 Resp: 2113207

Ion Ratio Lower Upper

117 100

82 53.0 45.9 68.9

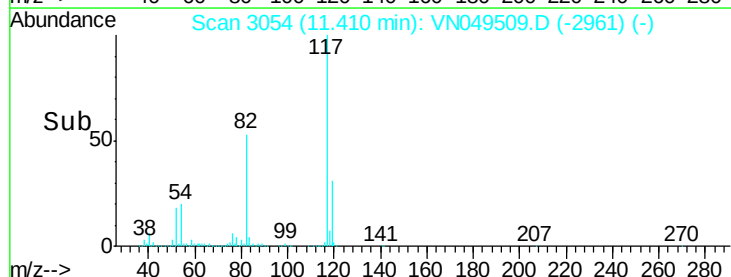
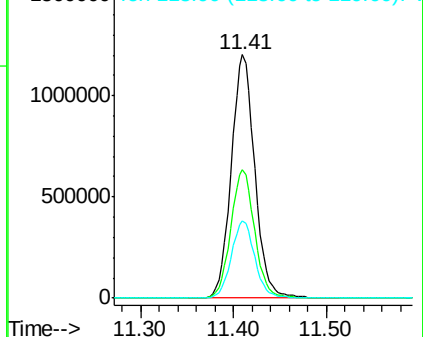
119 31.5 25.5 38.3

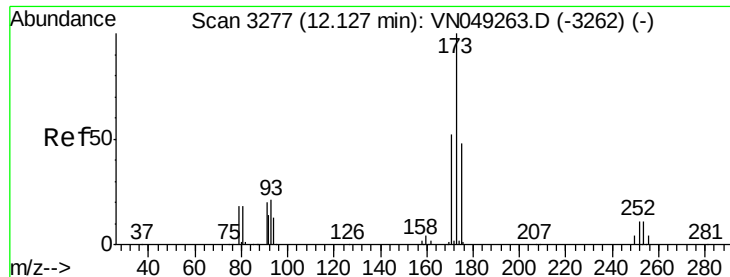


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 0.47 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN049509.D

Acq: 22 Jun 2018 22:49

Instrument :

MSVOA_N

ClientSampleId :

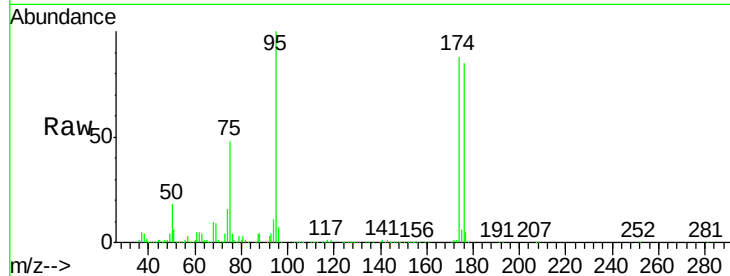
Tot Ion:173 Resp: 6297

Ion Ratio Lower Upper

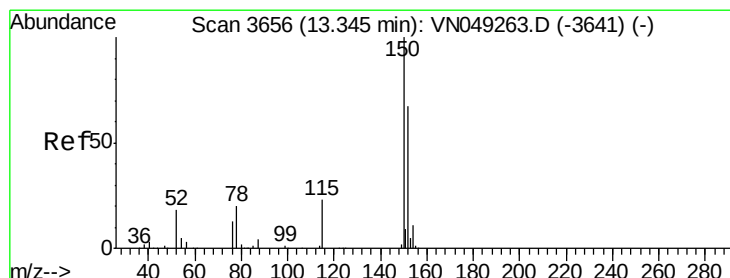
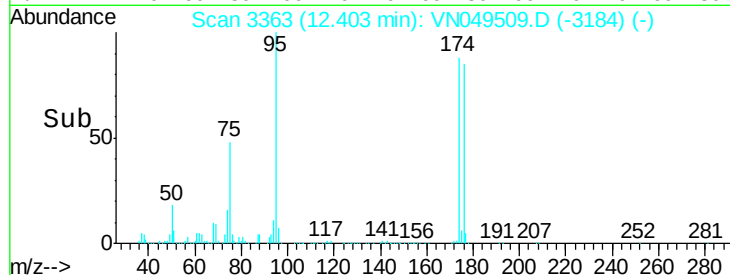
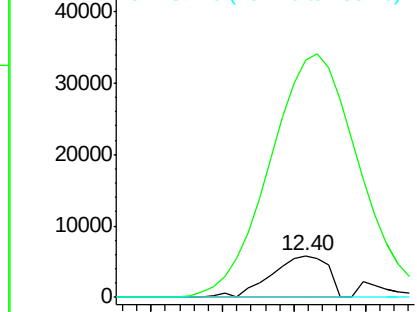
173 100

175 722.9 24.5 73.5#

254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN049509.D

Acq: 22 Jun 2018 22:49

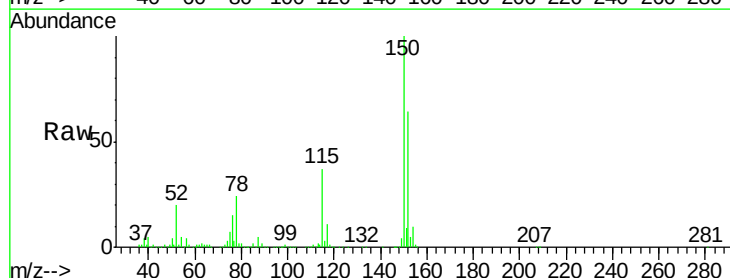
Tgt Ion:152 Resp: 607013

Ion Ratio Lower Upper

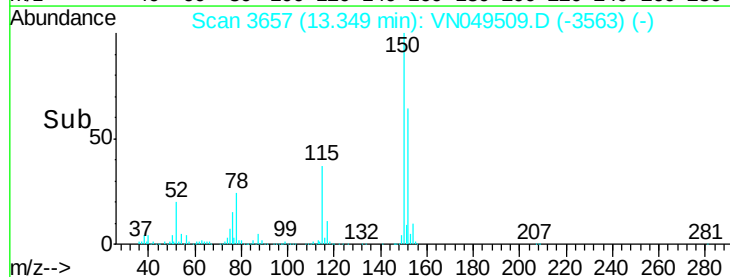
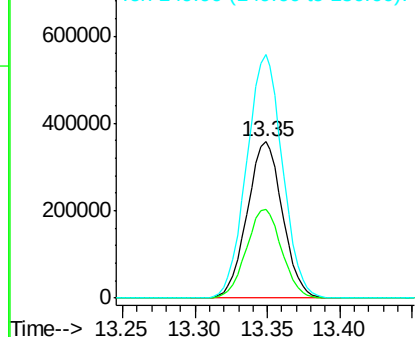
152 100

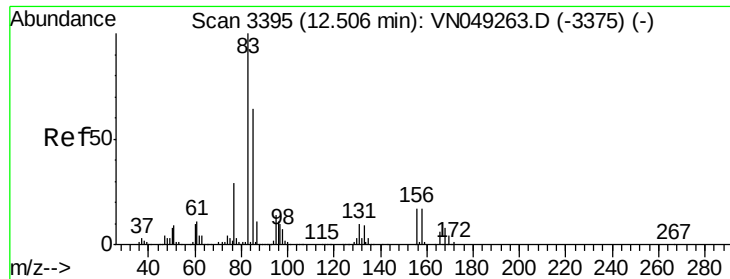
115 57.0 28.7 86.1

150 157.9 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# 3392

Delta R.T. -0.01 min

Lab File: VN049509.D

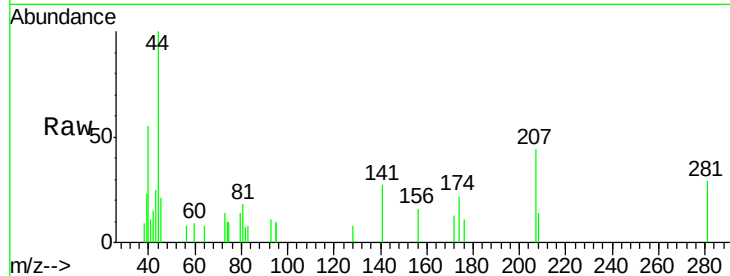
Acq: 22 Jun 2018 22:49

Instrument :

MSVOA_N

ClientSampleId :

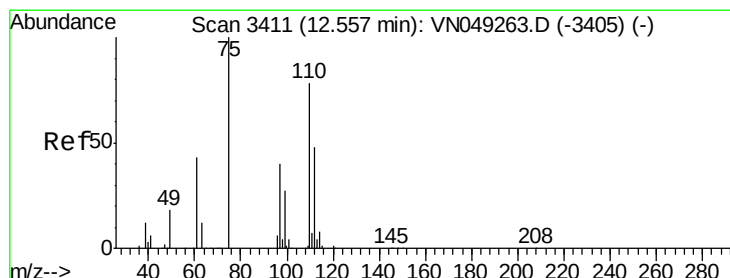
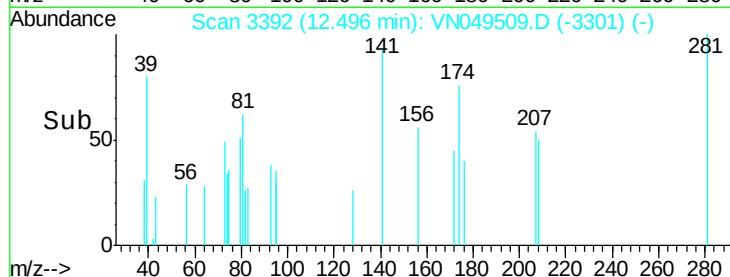
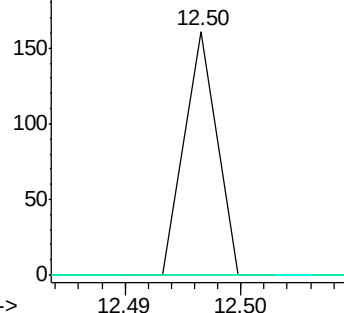
Tot Ion	83	Resp	31
Ion Ratio	100		
Lower	5.0		15.0#
Upper	32.0		96.0#



Abundance Ion 82.90 (82.60 to 83.60): VNC

Ion 130.80 (130.50 to 131.50): VNC

Ion 84.90 (84.60 to 85.60): VNC



#76

1,2,3-Trichloropropane

Concen: 42.49 ug/l

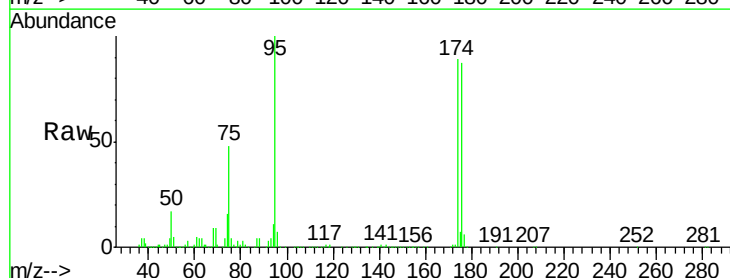
RT: 12.41 min Scan# 3364

Delta R.T. -0.15 min

Lab File: VN049509.D

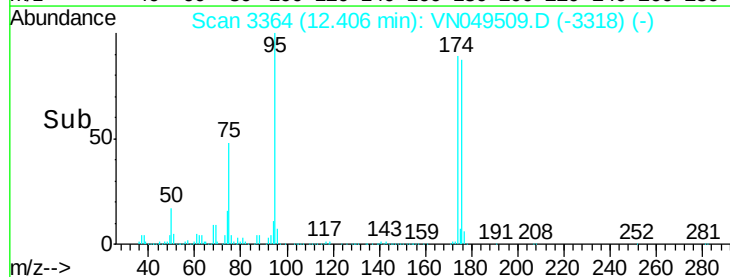
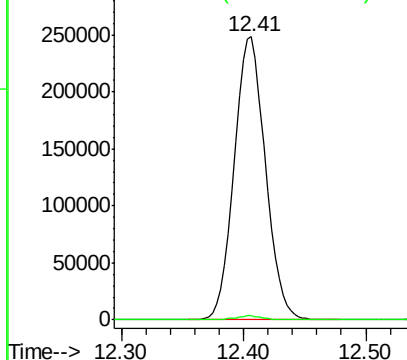
Acq: 22 Jun 2018 22:49

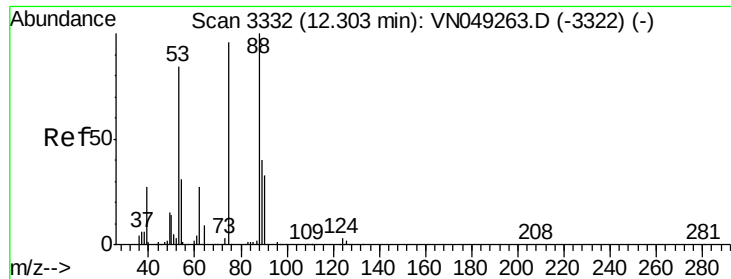
Tgt Ion	75	Resp	440031
Ion Ratio	100		
Lower	0.0		0.0#
Upper	1.3		



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC





#81

trans-1,4-Dichloro-2-butene

Concen: 134.28 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.10 min

Lab File: VN049509.D

Acq: 22 Jun 2018 22:49

Instrument :

MSVOA_N

ClientSampleId :

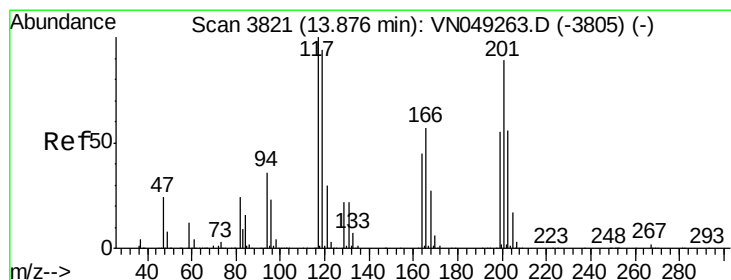
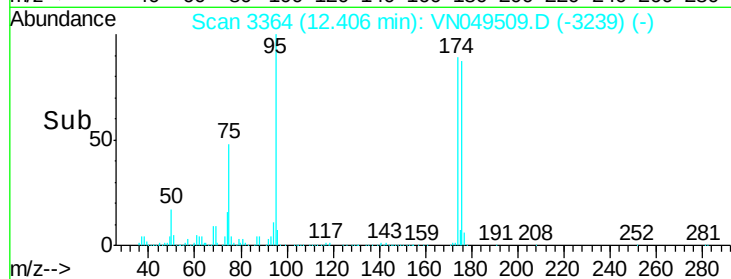
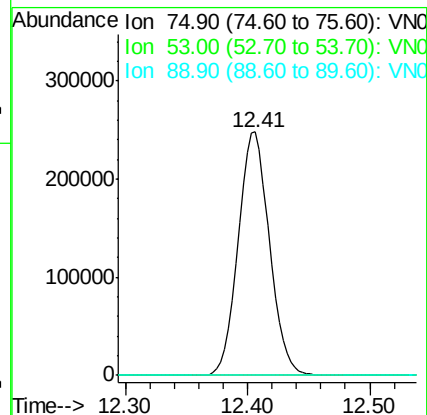
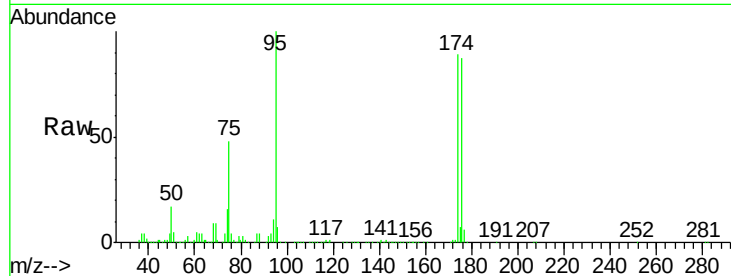
Tot Ion: 75 Resp: 440031

Ion Ratio Lower Upper

75 100

53 0.2 82.7 124.1#

89 0.0 36.5 54.7#



#90

Hexachloroethane

Concen: Below Cal

RT: 14.01 min Scan# 3862

Delta R.T. 0.13 min

Lab File: VN049509.D

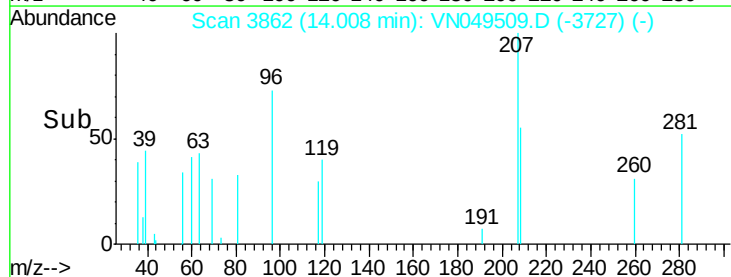
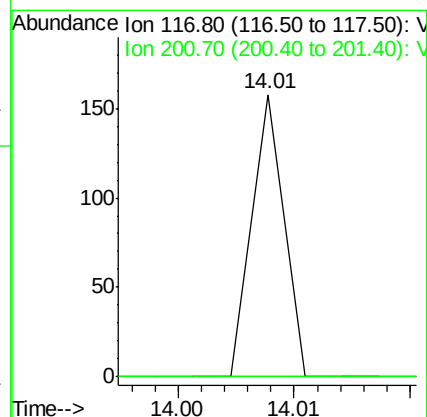
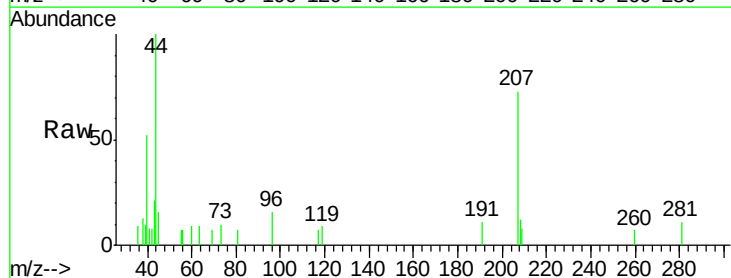
Acq: 22 Jun 2018 22:49

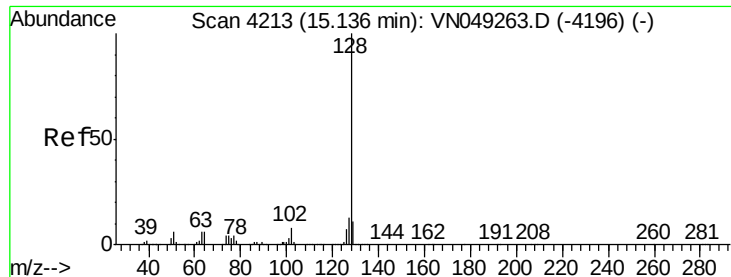
Tgt Ion: 117 Resp: 30

Ion Ratio Lower Upper

117 100

201 0.0 40.1 120.2#





#95
Naphthalene
Concen: 2.68 ug/l
RT: 15.14 min Scan# 4214
Delta R.T. 0.00 min
Lab File: VN049509.D
Acq: 22 Jun 2018 22:49

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.8	10.6	16.0
129	10.3	8.5	12.7

