

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062818\
 Data File : VN049620.D
 Acq On : 29 Jun 2018 5:08
 Operator : MD\SY
 Sample : J3612-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 29 08:37:06 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	1075315	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1725258	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1421084	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	480847	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	700318	49.10	ug/l	0.00
Spiked Amount			Recovery	=	98.20%	
35) Dibromofluoromethane	7.59	113	146456	10.49	ug/l	0.00
Spiked Amount			Recovery	=	20.98%	
50) Toluene-d8	10.09	98	2304282	43.36	ug/l	0.00
Spiked Amount			Recovery	=	86.72%	
62) 4-Bromofluorobenzene	12.40	95	628488	35.76	ug/l	0.00
Spiked Amount			Recovery	=	71.52%	

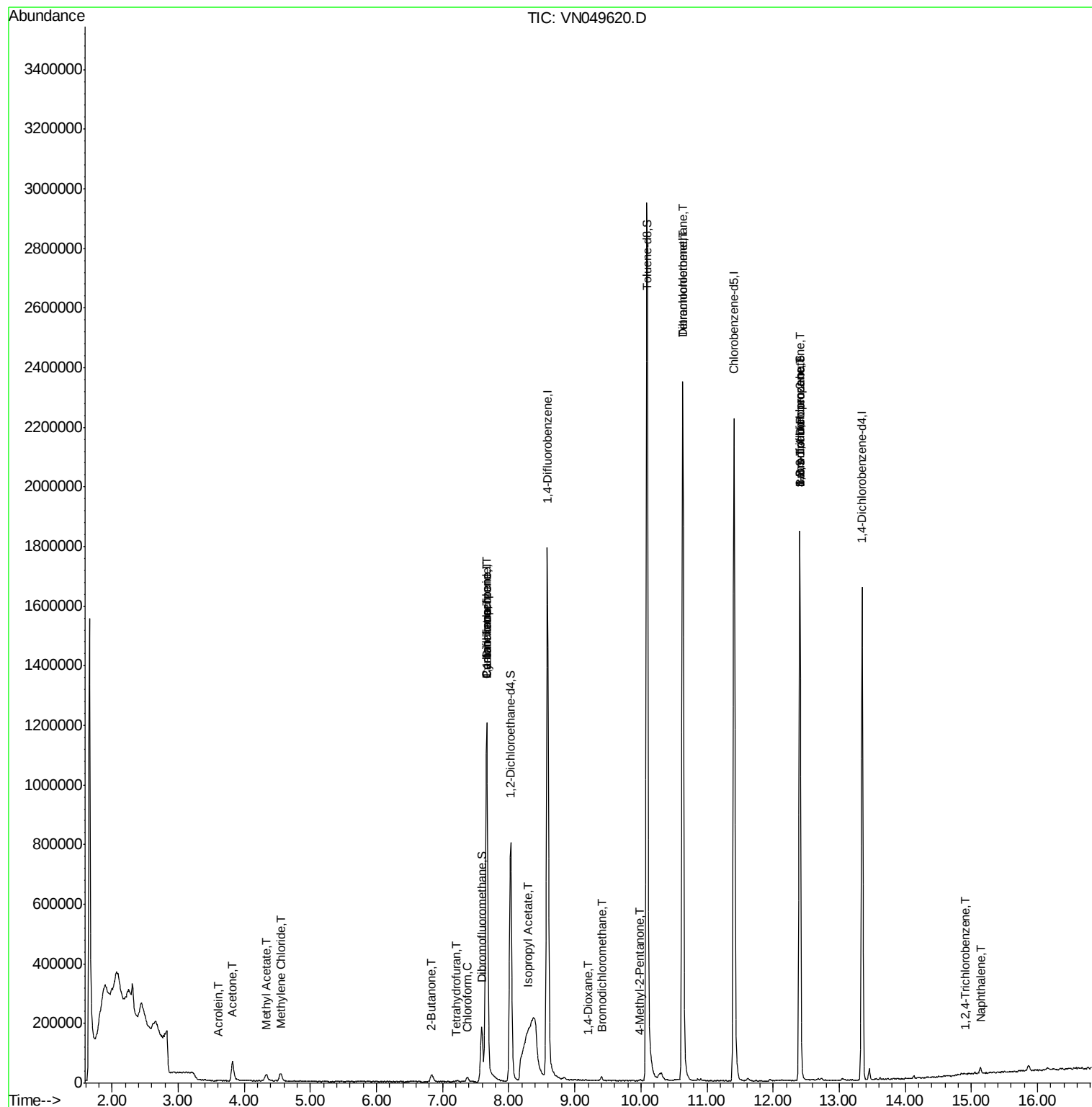
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	1193	1.36	ug/l #	81
16) Acetone	3.82	43	116802	33.73	ug/l	91
18) Methyl Acetate	4.34	43	44554	4.22	ug/l	93
20) Methylene Chloride	4.54	84	19750	1.37	ug/l #	84
25) 2-Butanone	6.84	43	7081	1.52	ug/l	93
29) Tetrahydrofuran	7.21	42	1820	0.61	ug/l #	77
30) Chloroform	7.36	83	7573	0.31	ug/l	85
31) Cyclohexane	7.66	56	19523	0.75	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	71370	3.61	ug/l #	51
38) Carbon Tetrachloride	7.67	117	94998	4.64	ug/l #	17
43) Isopropyl Acetate	8.28	43	270263	13.16	ug/l #	64
47) Bromodichloromethane	9.40	83	7637	0.38	ug/l #	95
49) 1,4-Dioxane	9.21	88	64	0.48	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	3786	0.35	ug/l #	72
60) Dibromochloromethane	10.63	129	533411	36.03	ug/l #	10
64) Tetrachloroethene	10.63	164	617188	42.38	ug/l	98
71) Bromoform	12.41	173	4768	0.53	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.41	83	547	Below	Cal #	1
76) 1,2,3-Trichloropropane	12.40	75	309522	37.73	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	309522	119.23	ug/l #	8
90) Hexachloroethane	13.83	117	30	Below	Cal #	9
93) 1,2,4-Trichlorobenzene	14.91	180	105	4.75	ug/l #	74
95) Naphthalene	15.14	128	15334	3.23	ug/l #	94

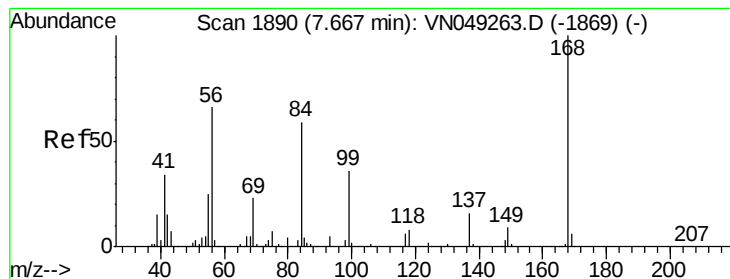
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN049620.D

Acq: 29 Jun 2018 5:08

Instrument :

MSVOA_N

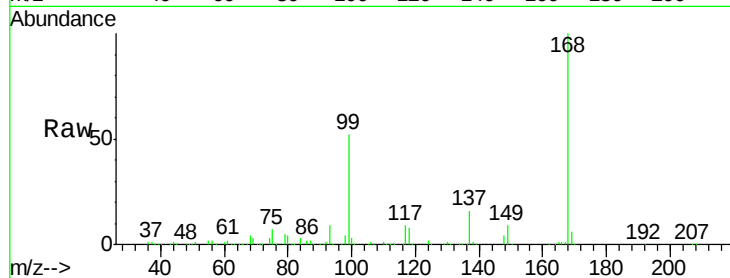
ClientSampleId :

Tot Ion:168 Resp: 1075315

Ion Ratio Lower Upper

168 100

99 52.4 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): VN049620.D (-1797) (-)

Ion 98.90 (98.60 to 99.60): VN049620.D (-1797) (-)

7.67

400000

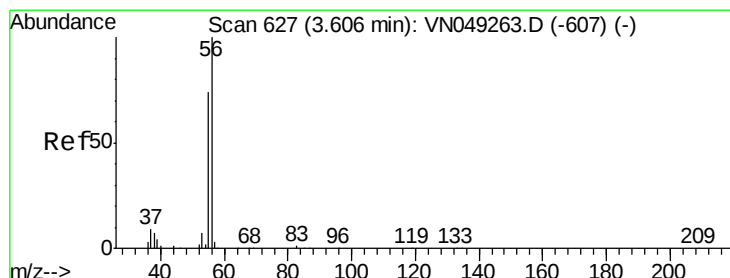
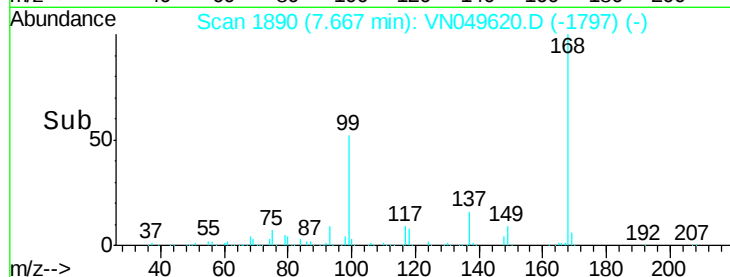
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 1.36 ug/l

RT: 3.61 min Scan# 627

Delta R.T. -0.00 min

Lab File: VN049620.D

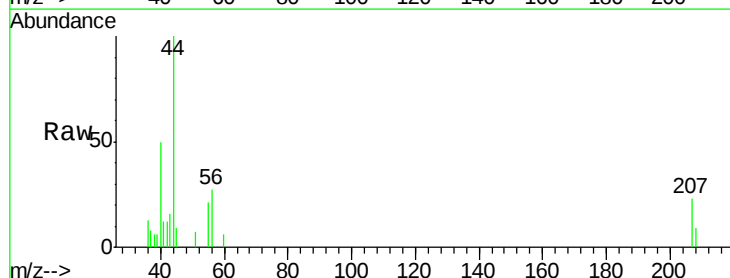
Acq: 29 Jun 2018 5:08

Tgt Ion: 56 Resp: 1193

Ion Ratio Lower Upper

56 100

55 55.9 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VN049620.D (-534) (-)

Ion 55.00 (54.70 to 55.70): VN049620.D (-534) (-)

3.61

800

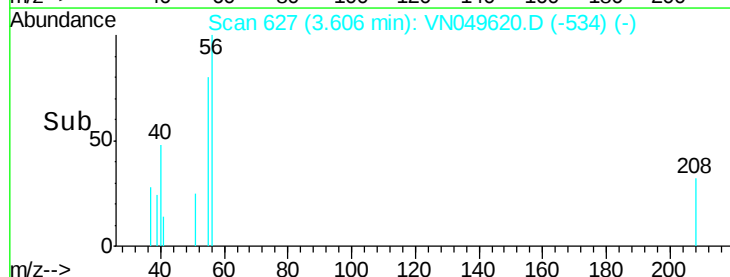
600

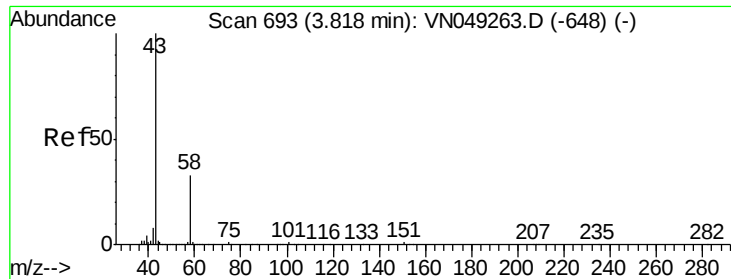
400

200

0

Time-->





#16

Acetone

Concen: 33.73 ug/l

RT: 3.82 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN049620.D

Acq: 29 Jun 2018 5:08

Instrument :

MSVOA_N

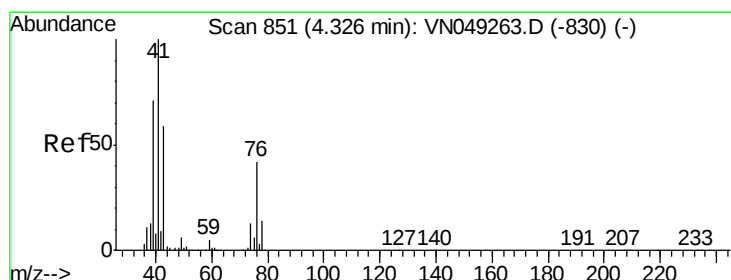
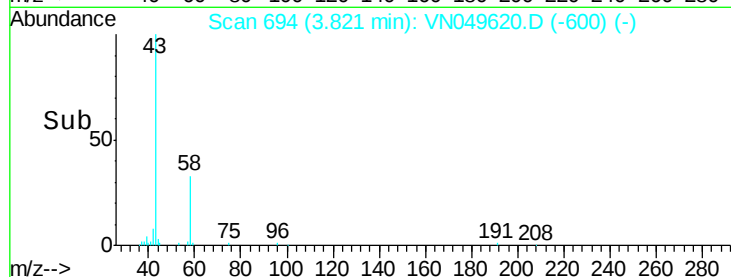
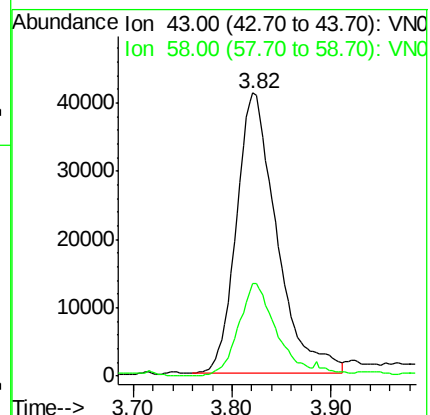
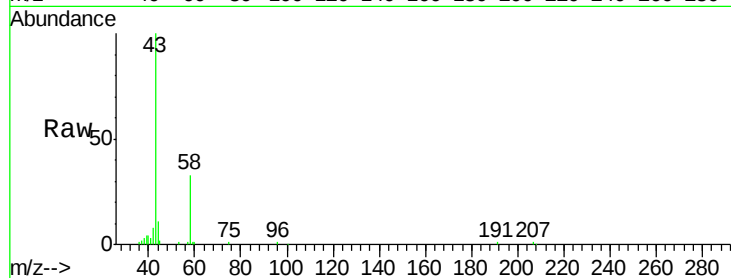
ClientSampleId :

Tot Ion: 43 Resp: 116802

Ion Ratio Lower Upper

43 100

58 33.0 22.4 33.6



#18

Methyl Acetate

Concen: 4.22 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN049620.D

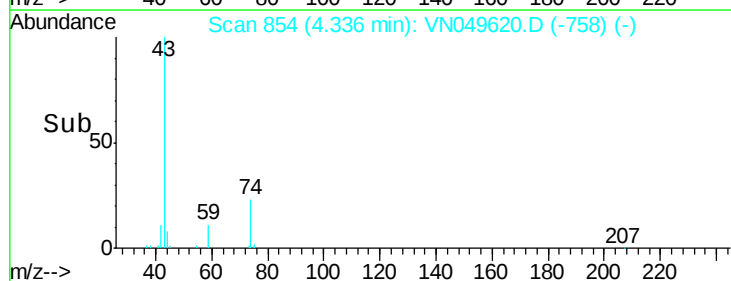
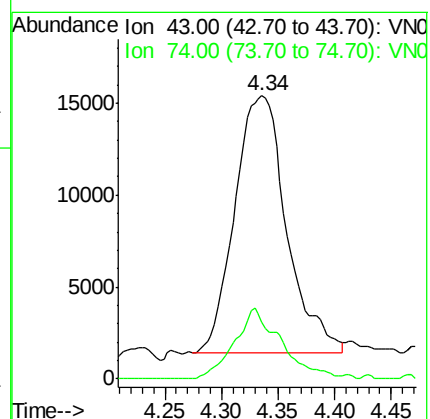
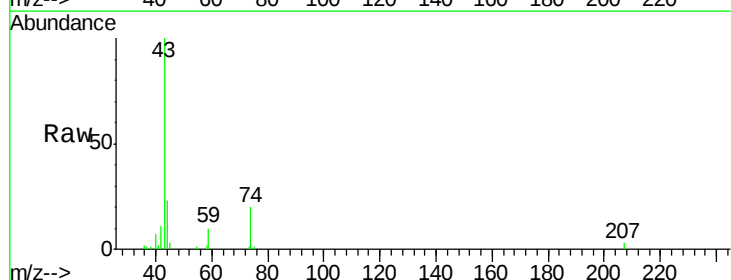
Acq: 29 Jun 2018 5:08

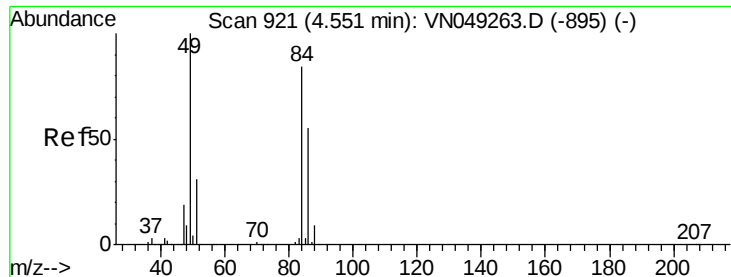
Tgt Ion: 43 Resp: 44554

Ion Ratio Lower Upper

43 100

74 24.8 17.4 26.0

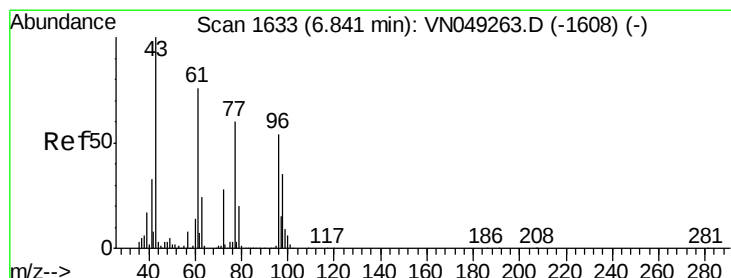
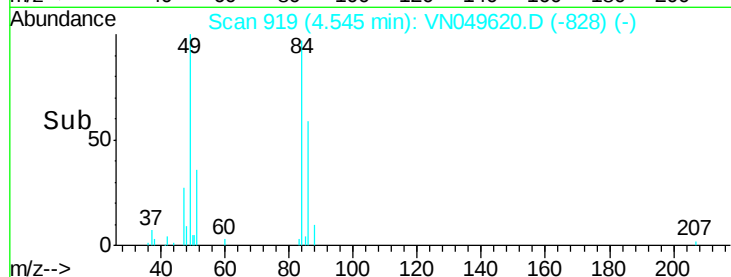
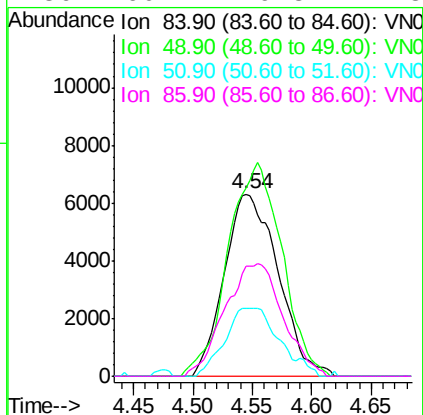
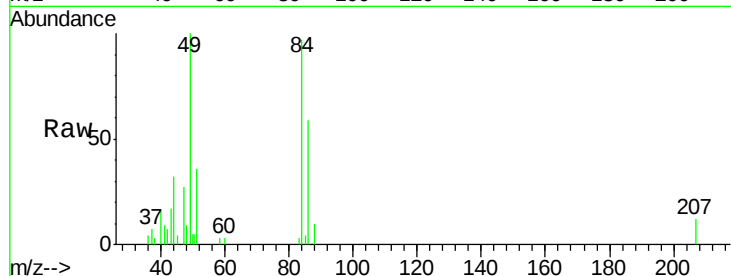




#20
Methylene Chloride
Concen: 1.37 ug/l
RT: 4.54 min Scan# 919
Delta R.T. -0.01 min
Lab File: VN049620.D
Acq: 29 Jun 2018 5:08

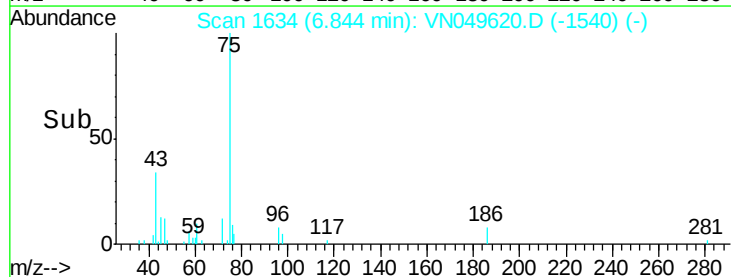
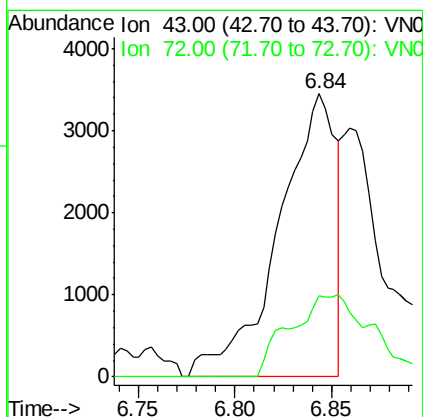
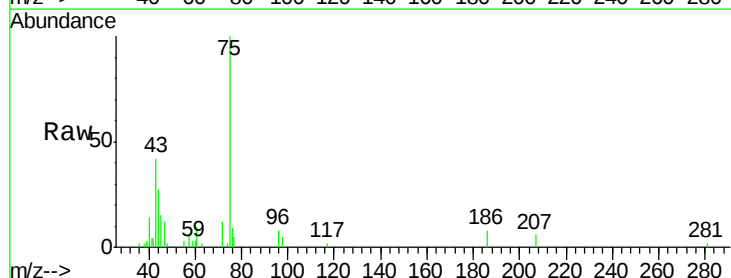
Instrument :
MSVOA_N
ClientSampled :

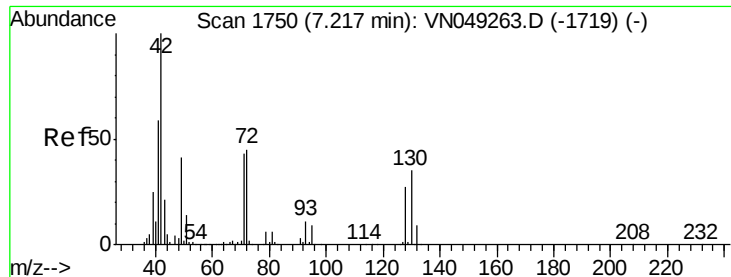
Tot Ion: 84 Resp: 19750
Ion Ratio Lower Upper
84 100
49 103.6 106.9 160.3#
51 37.1 32.7 49.1
86 60.7 49.8 74.8



#25
2-Butanone
Concen: 1.52 ug/l
RT: 6.84 min Scan# 1634
Delta R.T. 0.00 min
Lab File: VN049620.D
Acq: 29 Jun 2018 5:08

Tgt Ion: 43 Resp: 7081
Ion Ratio Lower Upper
43 100
72 28.8 20.2 30.2





#29

Tetrahydrofuran

Concen: 0.61 ug/l

RT: 7.21 min Scan# 1749

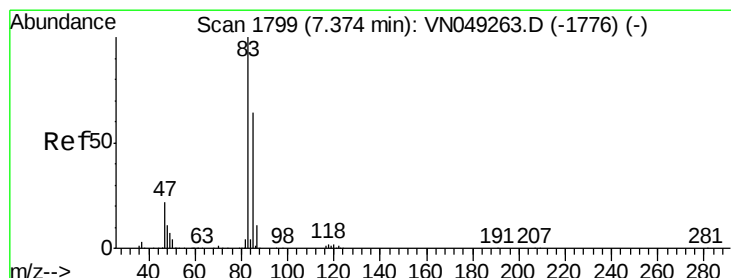
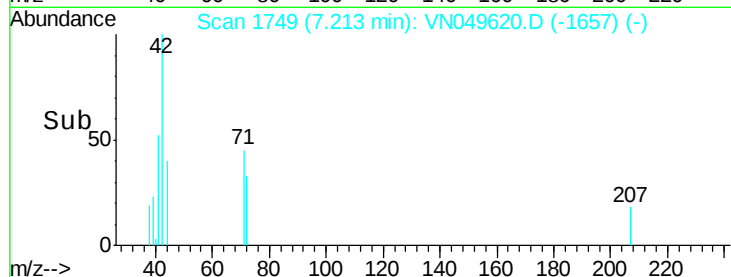
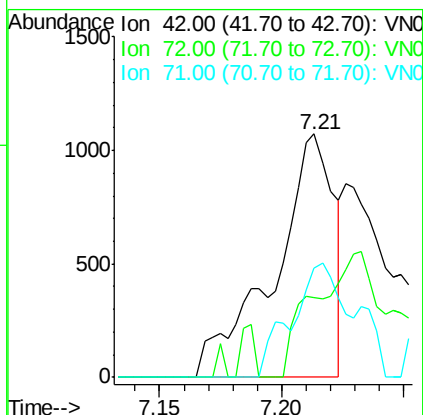
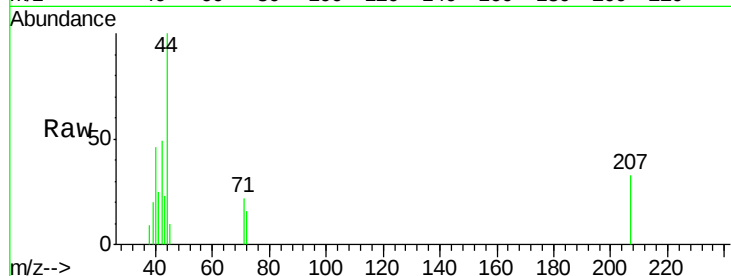
Delta R.T. -0.00 min

Lab File: VN049620.D

Acq: 29 Jun 2018 5:08

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 42 Resp: 1820
Ion Ratio Lower Upper
42 100
72 65.8 32.2 48.4#
71 40.5 30.5 45.7



#30

Chloroform

Concen: 0.31 ug/l

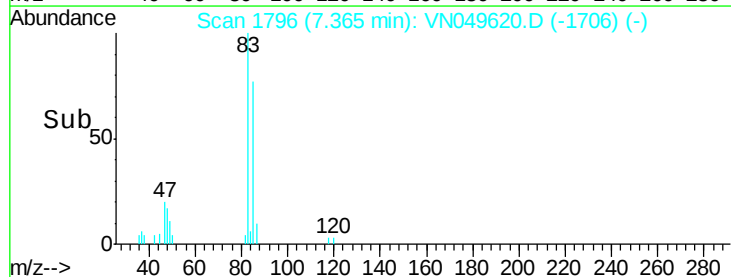
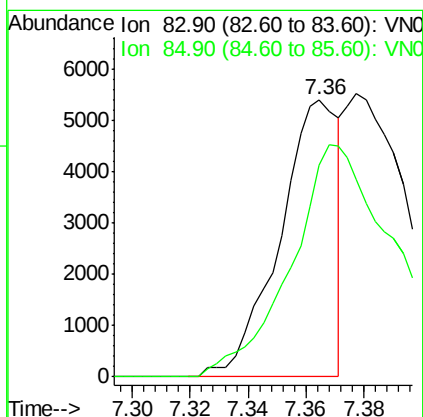
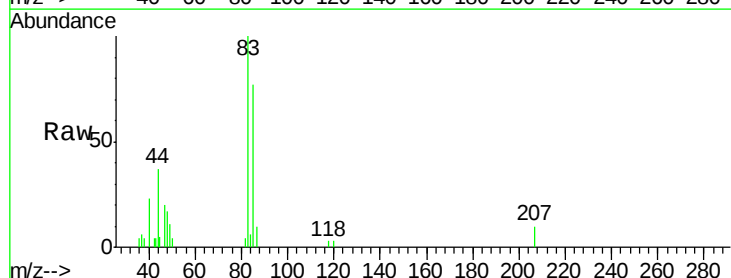
RT: 7.36 min Scan# 1796

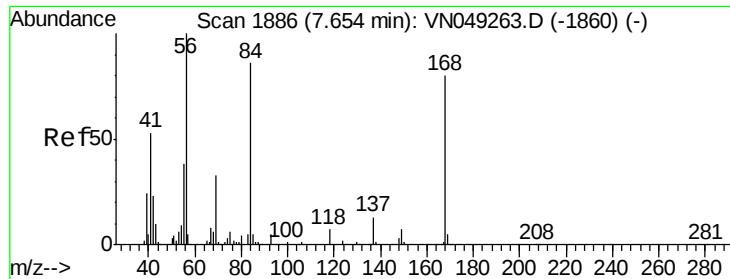
Delta R.T. -0.01 min

Lab File: VN049620.D

Acq: 29 Jun 2018 5:08

Tgt Ion: 83 Resp: 7573
Ion Ratio Lower Upper
83 100
85 76.5 51.7 77.5





#31

Cyclohexane

Concen: 0.75 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. 0.01 min

Lab File: VN049620.D

Acq: 29 Jun 2018 5:08

Instrument :

MSVOA_N

ClientSampleId :

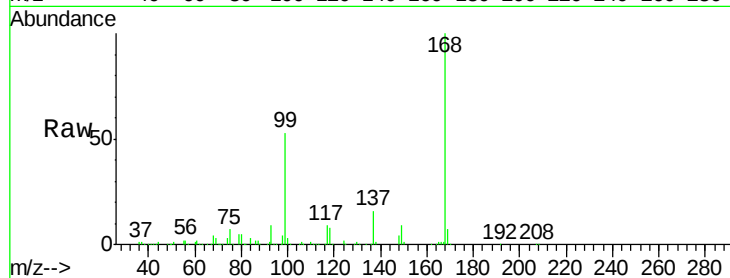
Tot Ion: 56 Resp: 19523

Ion Ratio Lower Upper

56 100

69 163.3 25.0 37.4#

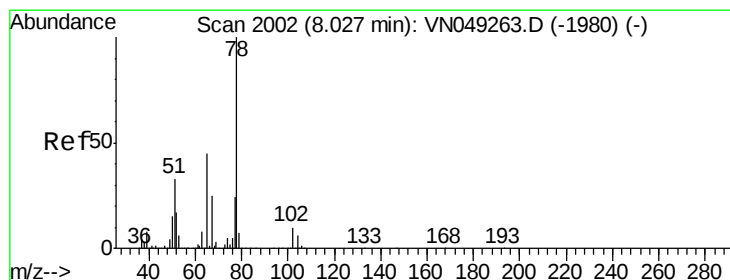
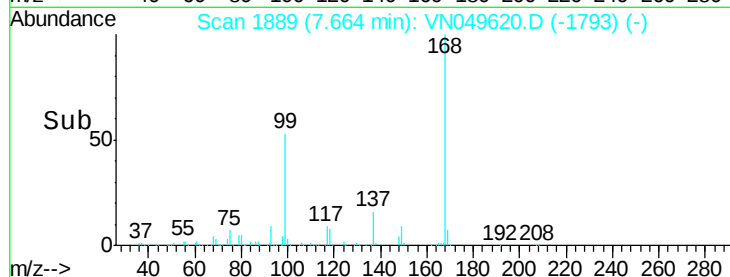
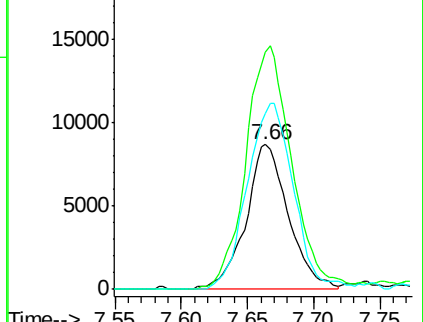
84 121.6 64.6 96.8#



Abundance Ion 56.00 (55.70 to 56.70): VN049263.D (-1860) (-)

Ion 69.00 (68.70 to 69.70): VN049263.D (-1860) (-)

Ion 84.00 (83.70 to 84.70): VN049263.D (-1860) (-)



#33

1,2-Dichloroethane-d4

Concen: 49.10 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049620.D

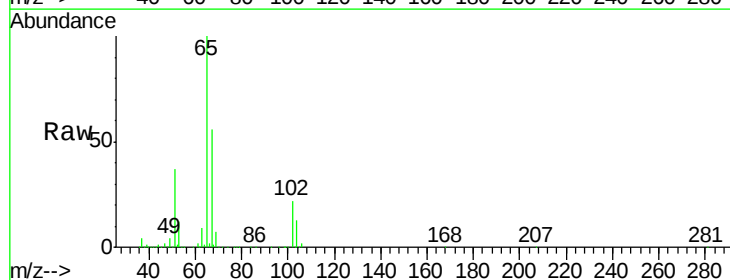
Acq: 29 Jun 2018 5:08

Tgt Ion: 65 Resp: 700318

Ion Ratio Lower Upper

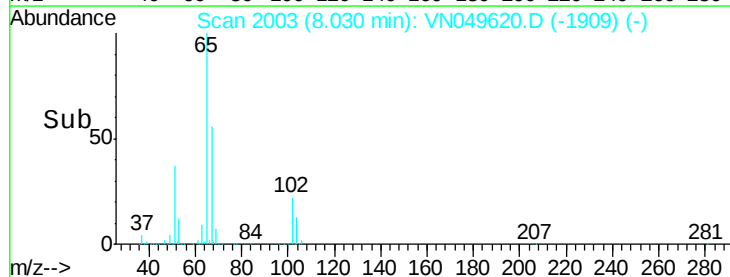
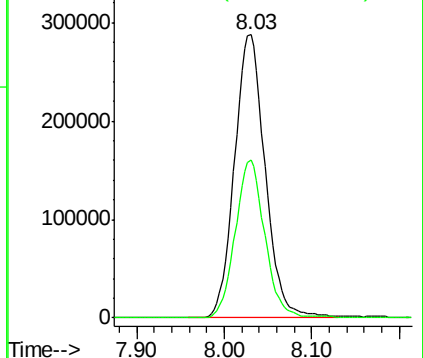
65 100

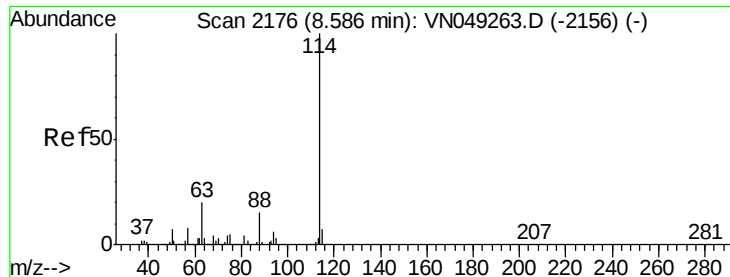
67 53.7 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN049263.D (-1980) (-)

Ion 66.90 (66.60 to 67.60): VN049263.D (-1980) (-)

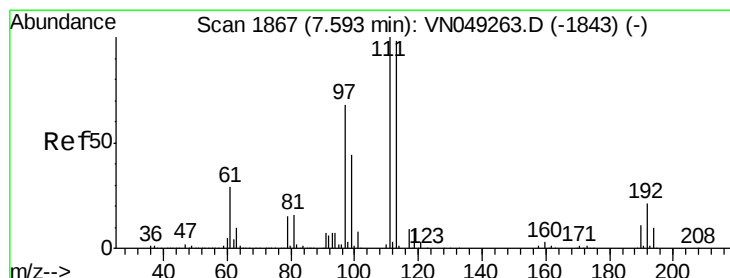
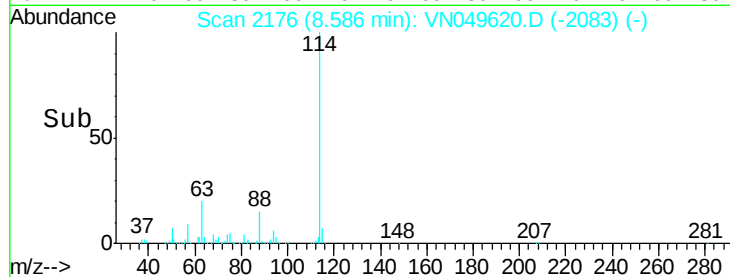
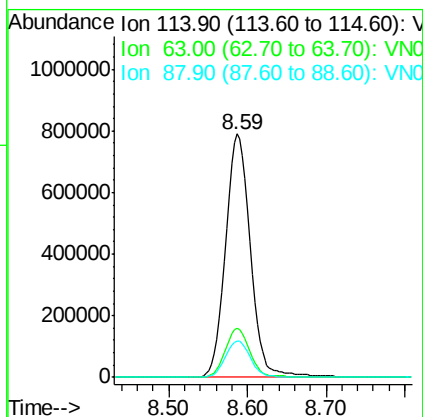
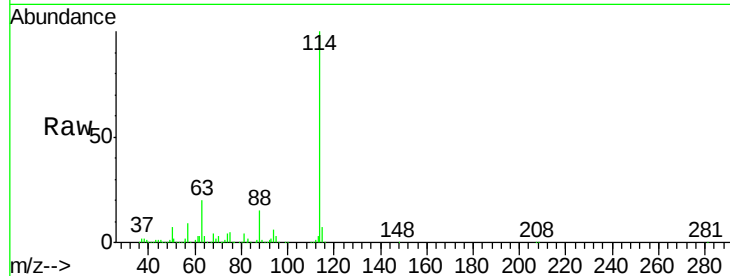




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN049620.D
 Acq: 29 Jun 2018 5:08

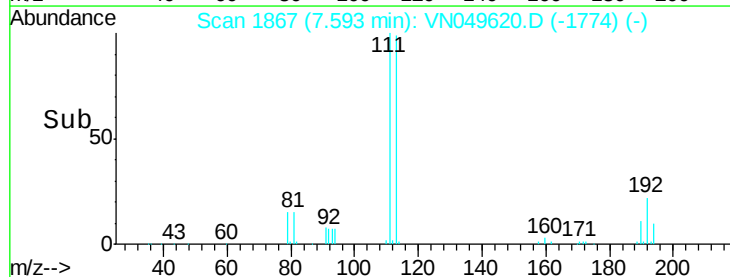
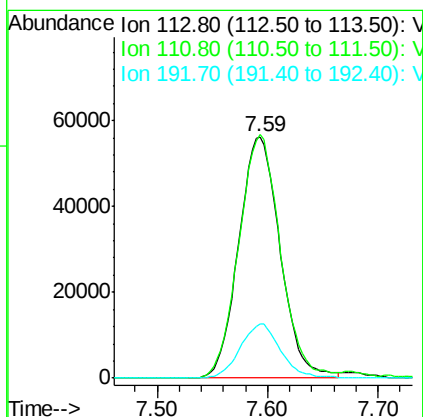
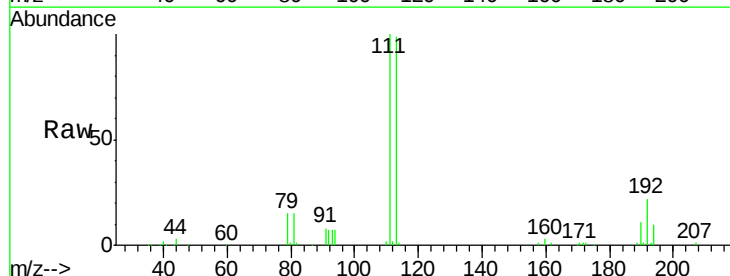
Instrument :
 MSVOA_N
 ClientSampleId :

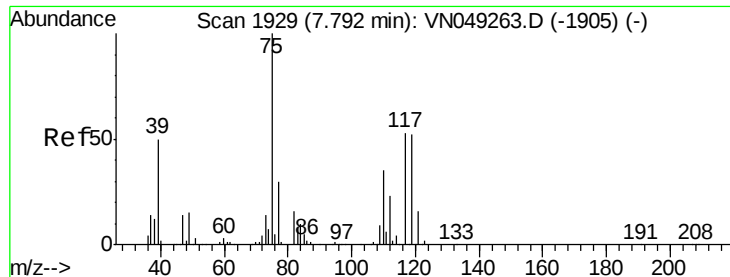
Tot Ion:114 Resp: 1725258
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 44.4
 88 15.0 0.0 31.4



#35
 Dibromofluoromethane
 Concen: 10.49 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN049620.D
 Acq: 29 Jun 2018 5:08

Tgt Ion:113 Resp: 146456
 Ion Ratio Lower Upper
 113 100
 111 101.1 82.4 123.6
 192 21.6 15.0 22.6

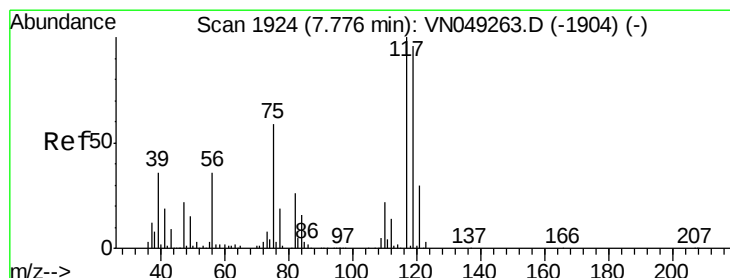
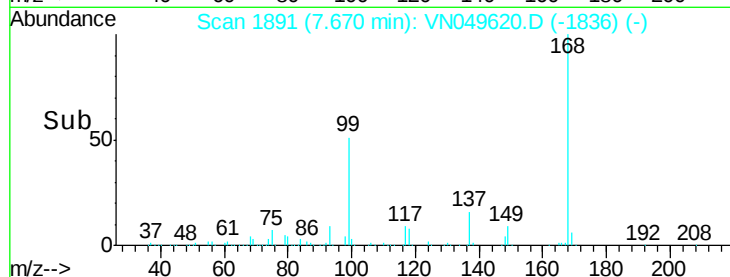
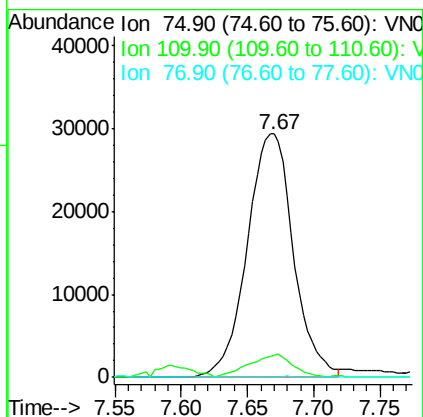
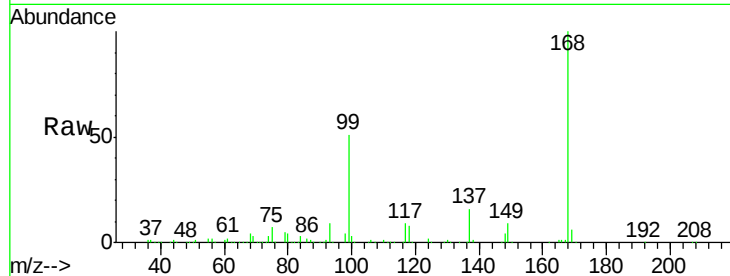




#36
 1,1-Dichloropropene
 Concen: 3.61 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.12 min
 Lab File: VN049620.D
 Acq: 29 Jun 2018 5:08

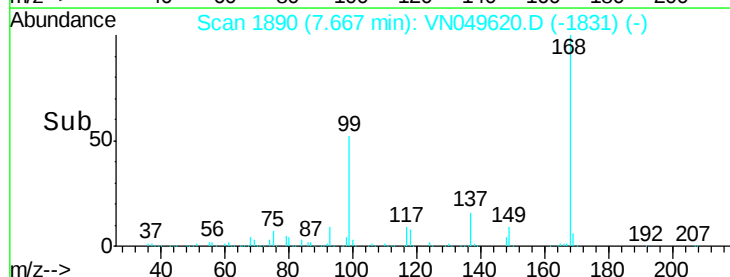
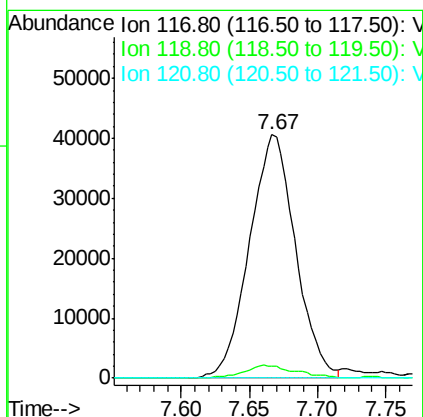
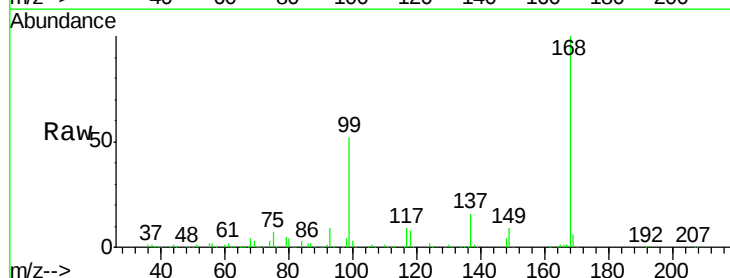
Instrument :
 MSVOA_N
 ClientSampleId :

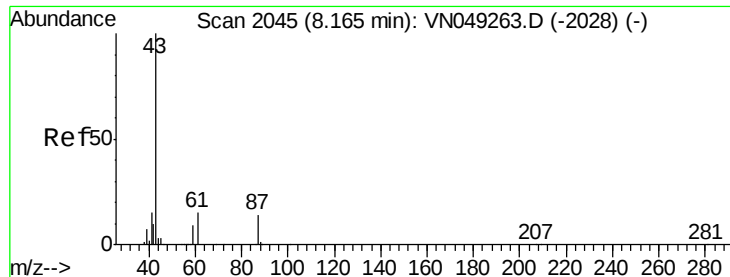
Tot Ion	75	Resp	71370
Ion Ratio	Lower	Upper	
75	100		
110	9.0	17.0	50.9#
77	0.0	24.4	36.6#



#38
 Carbon Tetrachloride
 Concen: 4.64 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN049620.D
 Acq: 29 Jun 2018 5:08

Tgt Ion	117	Resp	94998
Ion Ratio	Lower	Upper	
117	100		
119	5.1	75.6	113.4#
121	0.0	24.7	37.1#



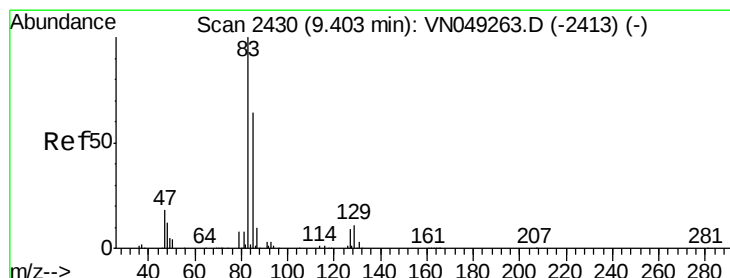
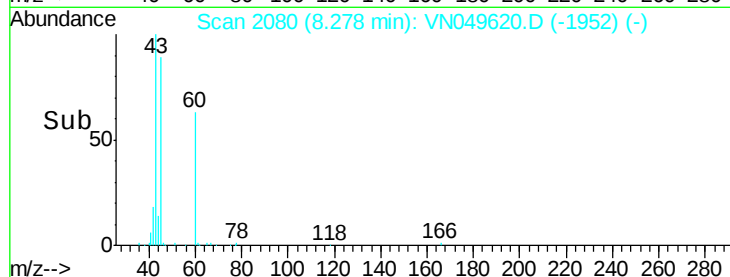
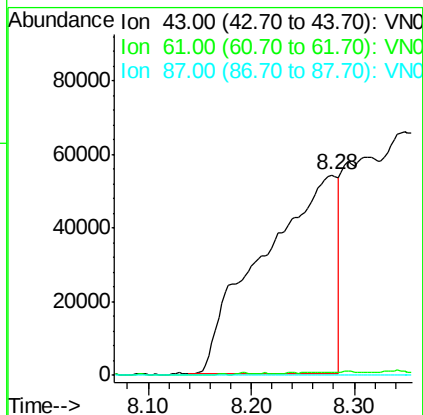
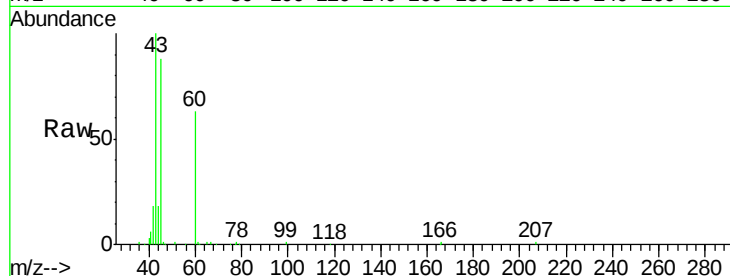


#43

Isopropyl Acetate
 Concen: 13.16 ug/l
 RT: 8.28 min Scan# 2080
 Delta R.T. 0.11 min
 Lab File: VN049620.D
 Acq: 29 Jun 2018 5:08

Instrument :
 MSVOA_N
 ClientSampleId :

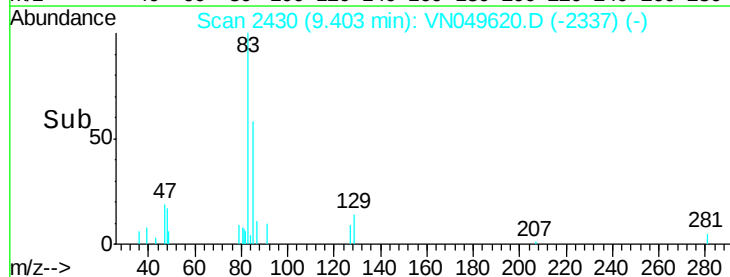
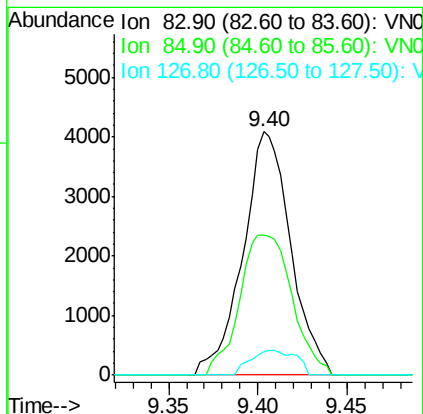
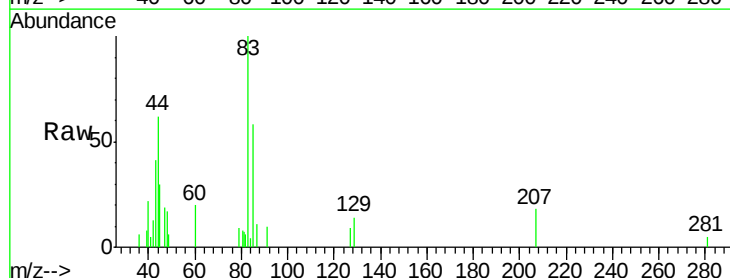
Tot Ion	Ratio	Lower	Upper
43	100		
61	0.2	14.2	21.4#
87	0.0	9.4	14.0#

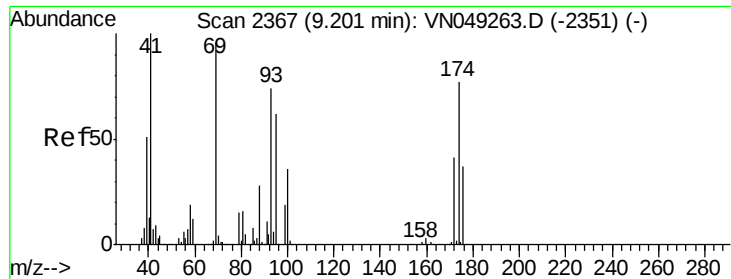


#47

Bromodichloromethane
 Concen: 0.38 ug/l
 RT: 9.40 min Scan# 2430
 Delta R.T. -0.00 min
 Lab File: VN049620.D
 Acq: 29 Jun 2018 5:08

Tgt Ion	Ratio	Lower	Upper
83	100		
85	57.7	49.4	74.0
127	9.5	6.3	9.5#

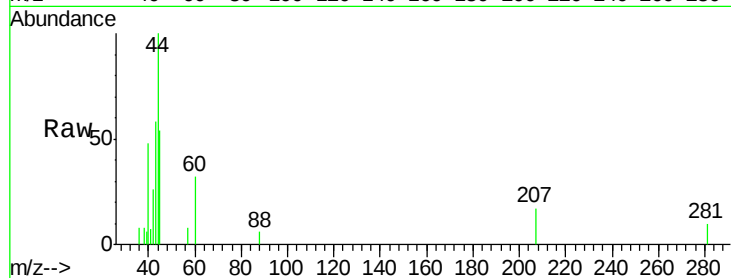




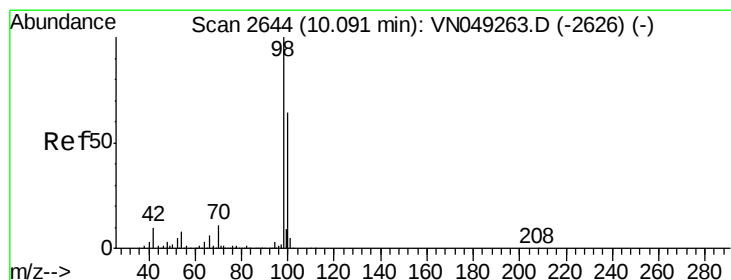
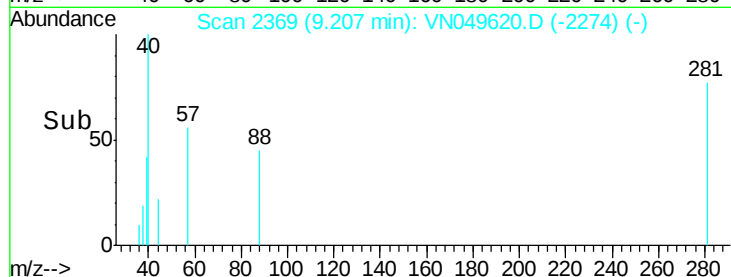
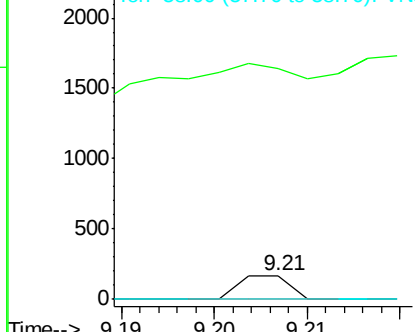
#49
1,4-Dioxane
Concen: 0.48 ug/l
RT: 9.21 min Scan# 2369
Delta R.T. 0.01 min
Lab File: VN049620.D
Acq: 29 Jun 2018 5:08

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 88 Resp: 64
Ion Ratio Lower Upper
88 100
43 528.1 30.9 46.3#
58 0.0 58.9 88.3#

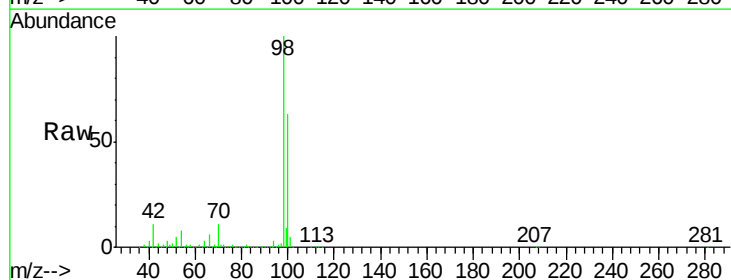


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

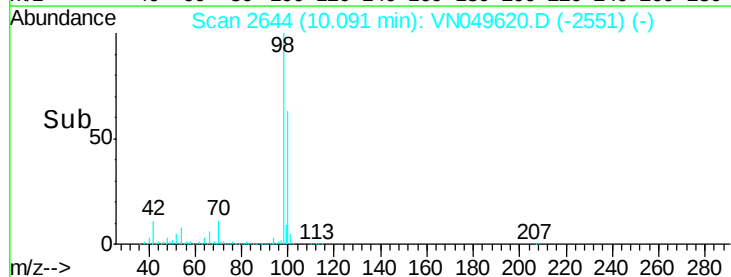
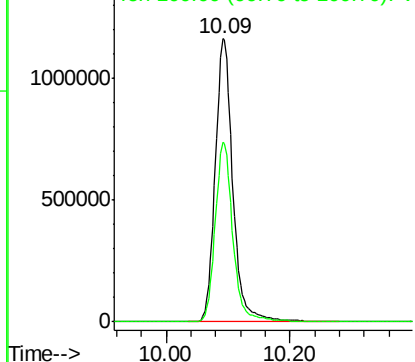


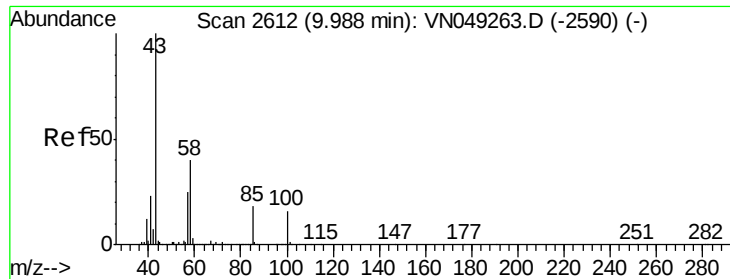
#50
Toluene-d8
Concen: 43.36 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN049620.D
Acq: 29 Jun 2018 5:08

Tgt Ion: 98 Resp: 2304282
Ion Ratio Lower Upper
98 100
100 63.5 49.8 74.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

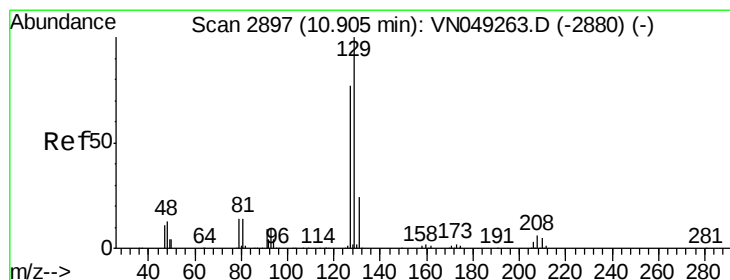
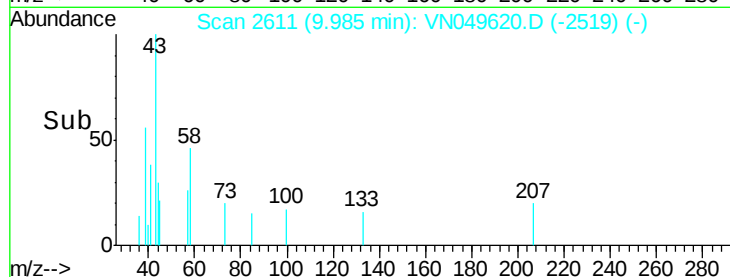
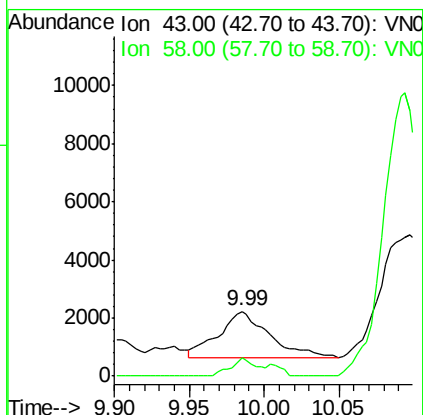
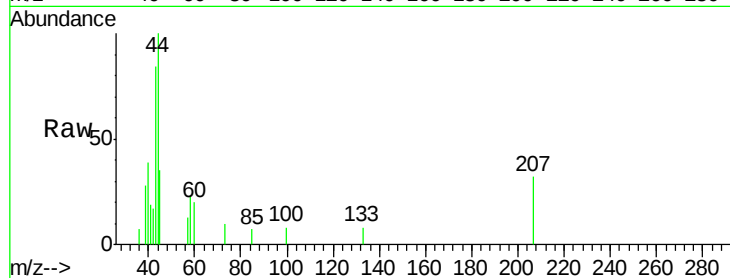




#51
4-Methyl-2-Pentanone
Concen: 0.35 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. -0.00 min
Lab File: VN049620.D
Acq: 29 Jun 2018 5:08

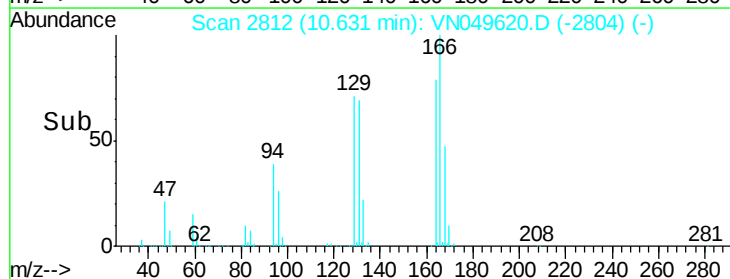
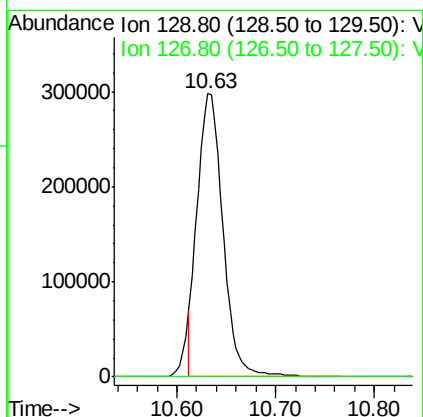
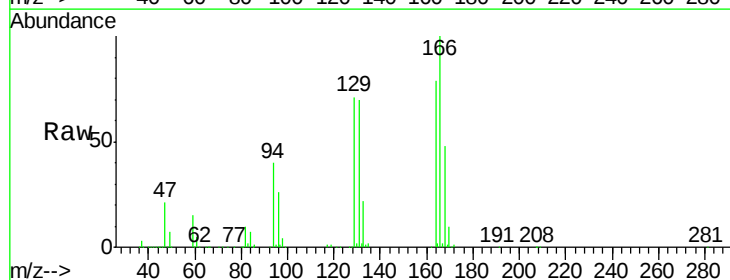
Instrument :
MSVOA_N
ClientSampled :

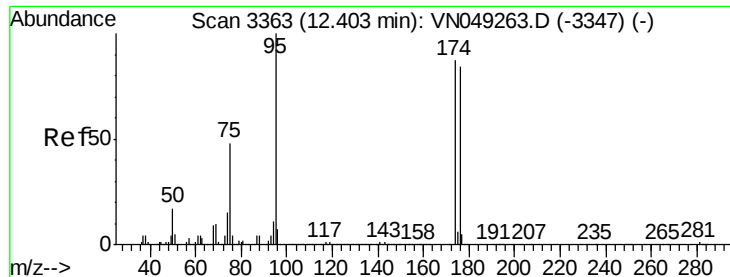
Tot Ion: 43 Resp: 3786
Ion Ratio Lower Upper
43 100
58 19.9 29.0 43.6#



#60
Dibromochloromethane
Concen: 36.03 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. -0.27 min
Lab File: VN049620.D
Acq: 29 Jun 2018 5:08

Tgt Ion: 129 Resp: 533411
Ion Ratio Lower Upper
129 100
127 0.0 39.1 117.2#

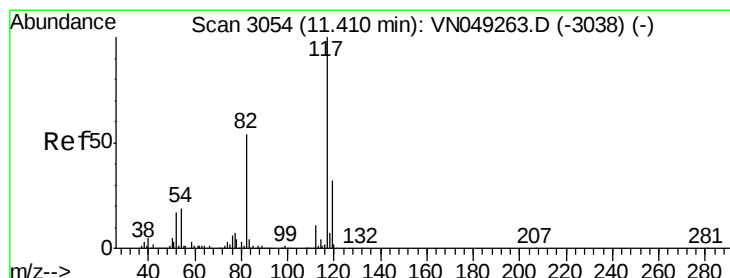
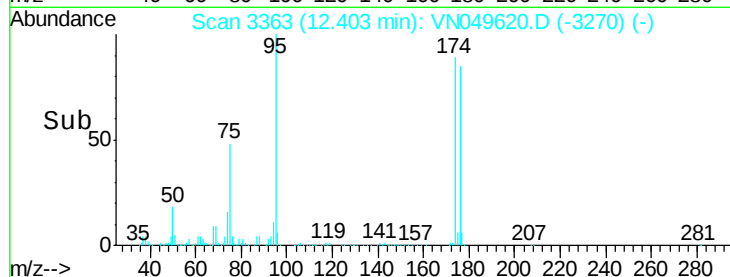
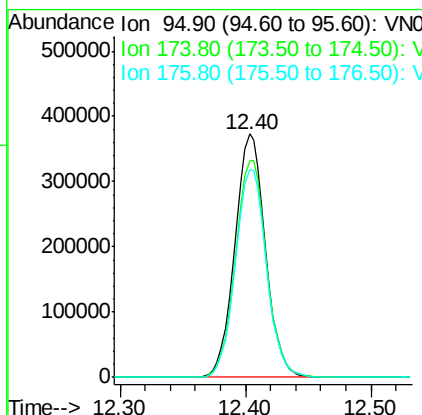
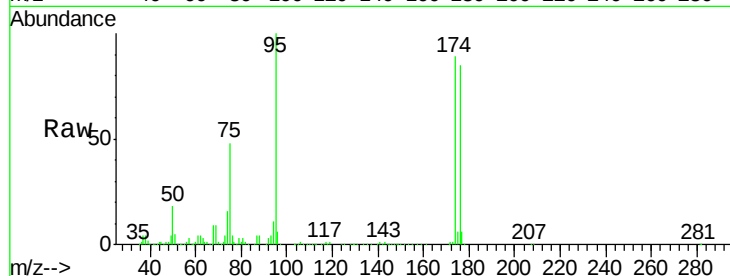




#62
4-Bromofluorobenzene
Concen: 35.76 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. -0.00 min
Lab File: VN049620.D
Acq: 29 Jun 2018 5:08

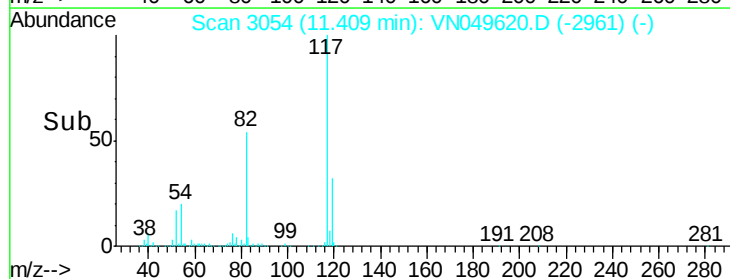
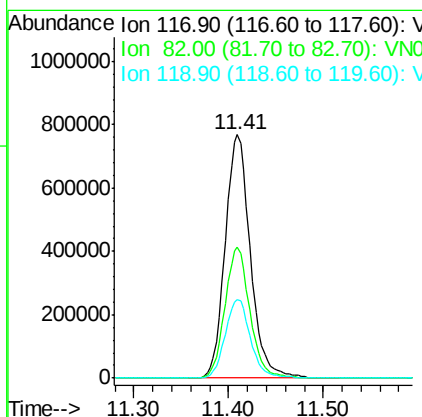
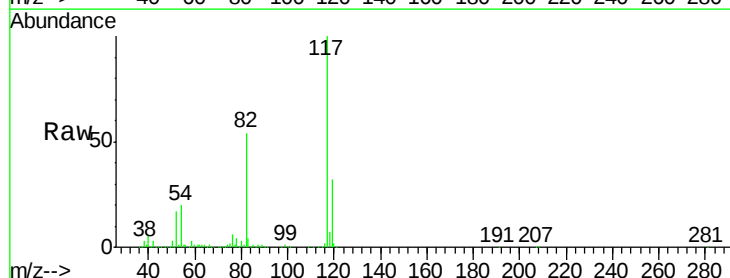
Instrument :
MSVOA_N
ClientSampleId :

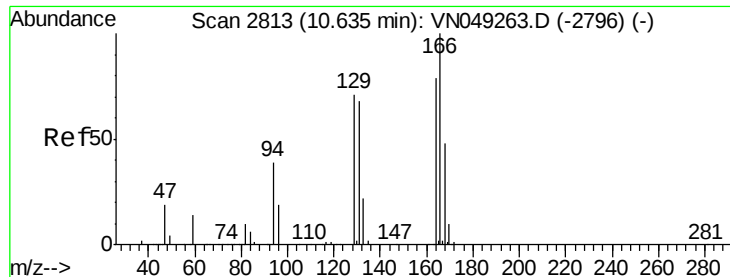
Tot Ion: 95 Resp: 628488
Ion Ratio Lower Upper
95 100
174 91.6 0.0 165.6
176 87.2 0.0 157.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN049620.D
Acq: 29 Jun 2018 5:08

Tgt Ion: 117 Resp: 1421084
Ion Ratio Lower Upper
117 100
82 53.8 45.9 68.9
119 32.4 25.5 38.3





#64

Tetrachloroethene

Concen: 42.38 ug/l

RT: 10.63 min Scan# 2813

Delta R.T. -0.00 min

Lab File: VN049620.D

Acq: 29 Jun 2018 5:08

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:164 Resp: 617188

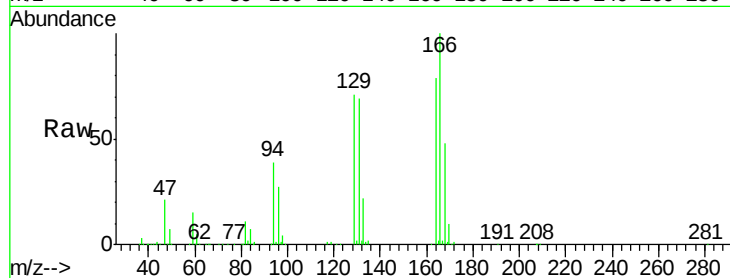
Ion Ratio Lower Upper

164 100

166 126.6 101.4 152.2

129 90.0 74.1 111.1

131 87.2 73.7 110.5

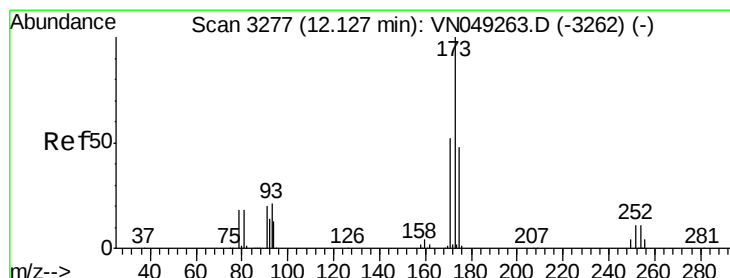
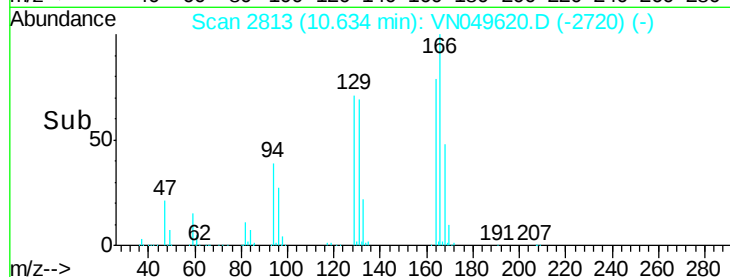
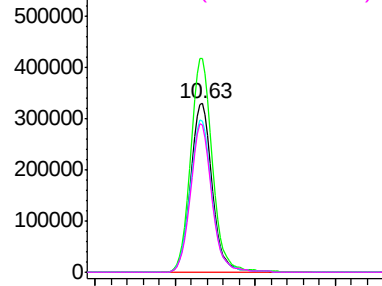


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 0.53 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN049620.D

Acq: 29 Jun 2018 5:08

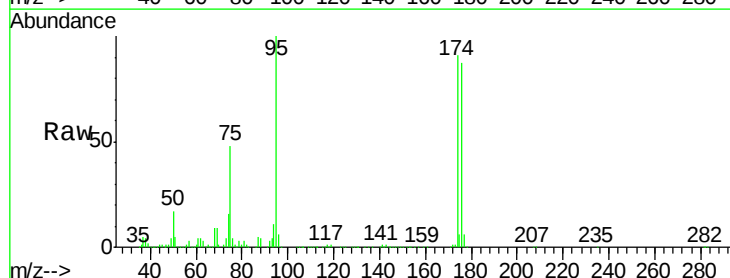
Tgt Ion:173 Resp: 4768

Ion Ratio Lower Upper

173 100

175 716.2 24.5 73.5#

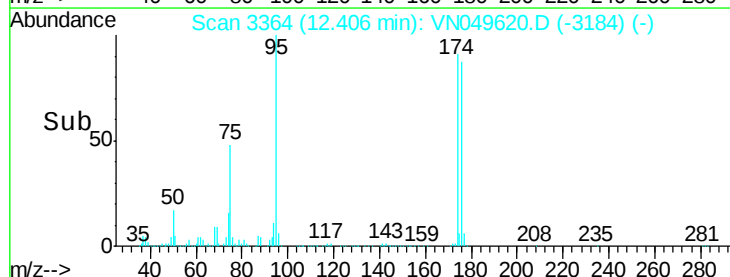
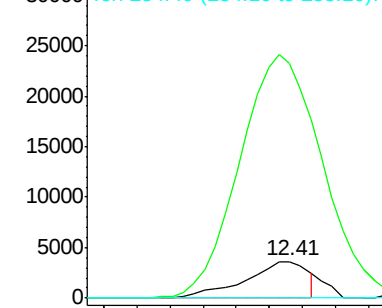
254 0.0 0.1 0.1#

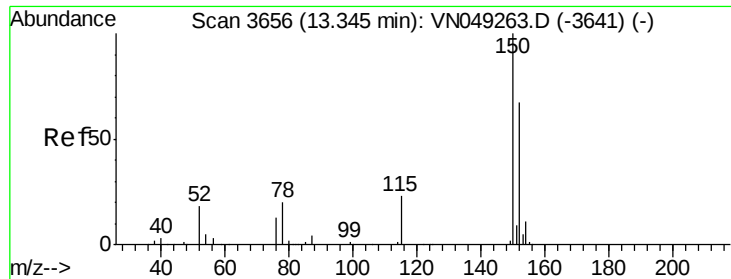


Abundance Ion 172.70 (172.40 to 173.40): V

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# 3656

Delta R.T. -0.00 min

Lab File: VN049620.D

Acq: 29 Jun 2018 5:08

Instrument :

MSVOA_N

ClientSampled :

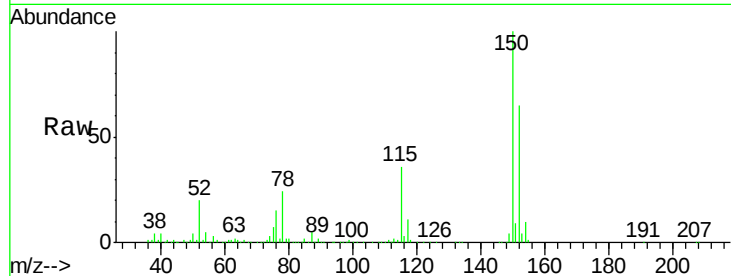
Tot Ion:152 Resp: 480847

Ion Ratio Lower Upper

152 100

115 56.4 28.7 86.1

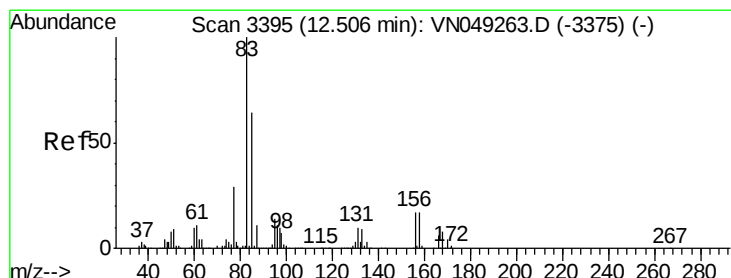
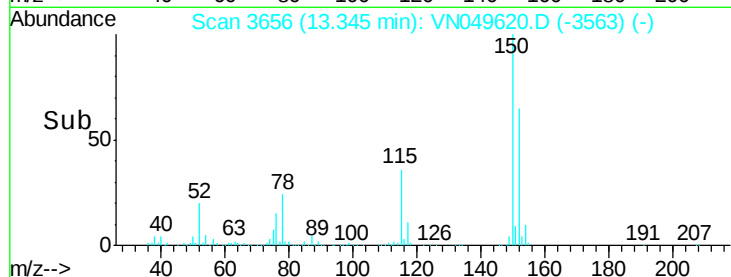
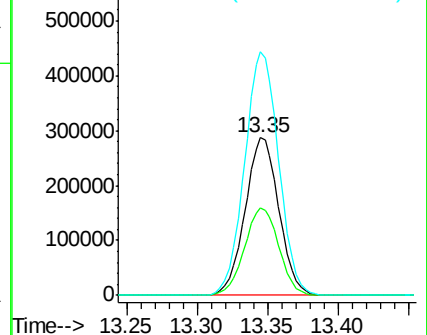
150 155.7 0.0 351.0



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: 12.41 min Scan# 3365

Delta R.T. -0.10 min

Lab File: VN049620.D

Acq: 29 Jun 2018 5:08

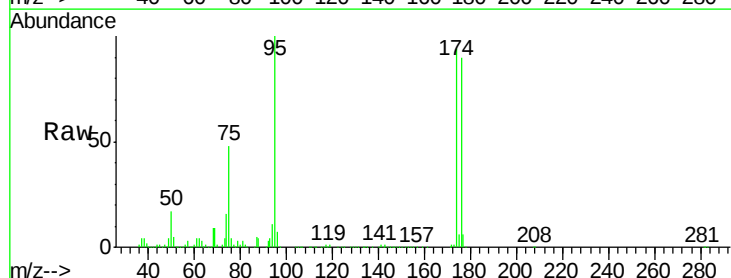
Tgt Ion: 83 Resp: 547

Ion Ratio Lower Upper

83 100

131 158.9 5.0 15.0#

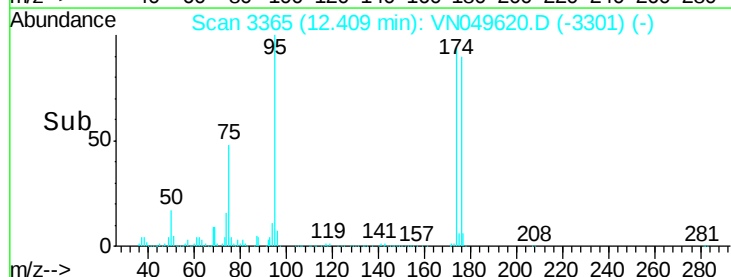
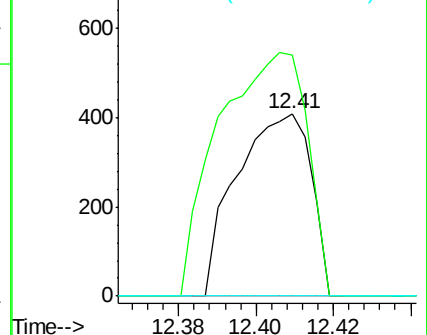
85 0.0 32.0 96.0#

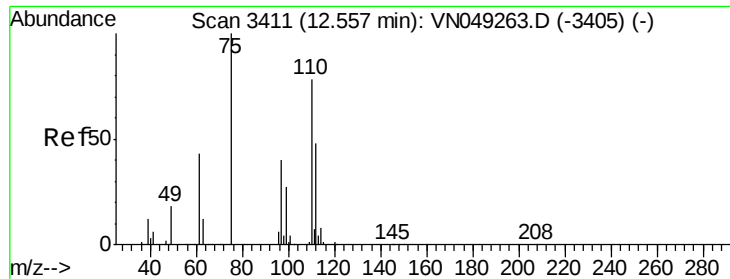


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 37.73 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049620.D

Acq: 29 Jun 2018 5:08

Instrument :

MSVOA_N

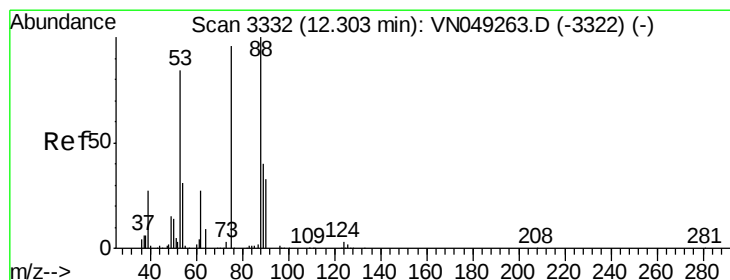
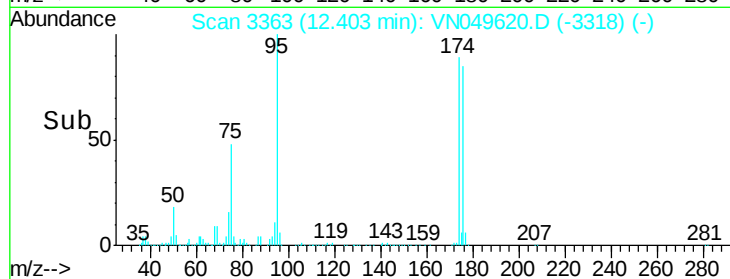
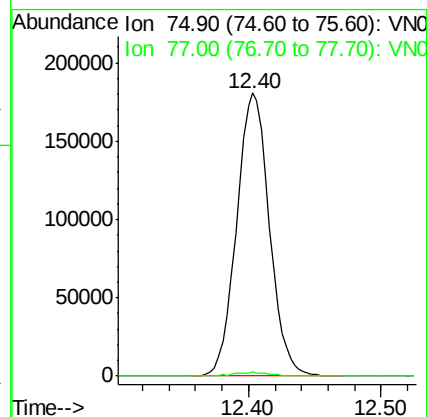
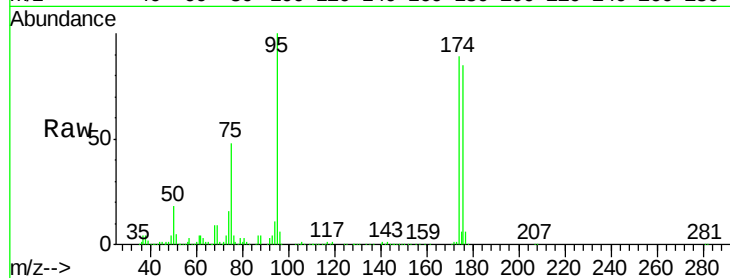
ClientSampled :

Tot Ion: 75 Resp: 309522

Ion Ratio Lower Upper

75 100

77 1.6 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 119.23 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049620.D

Acq: 29 Jun 2018 5:08

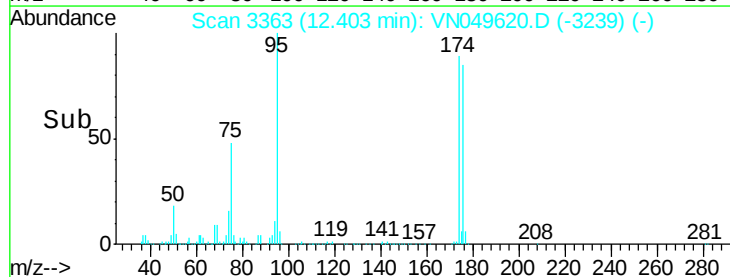
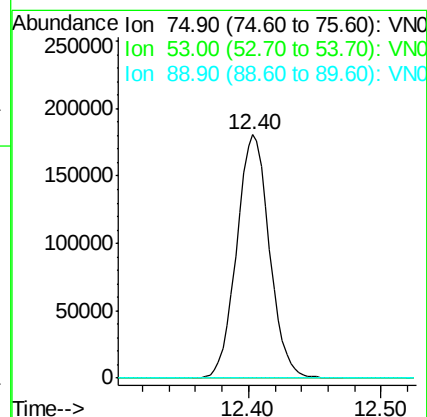
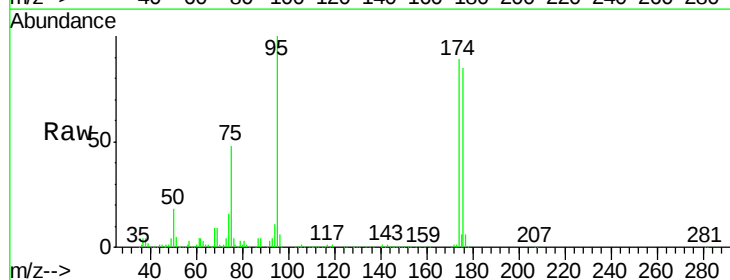
Tgt Ion: 75 Resp: 309522

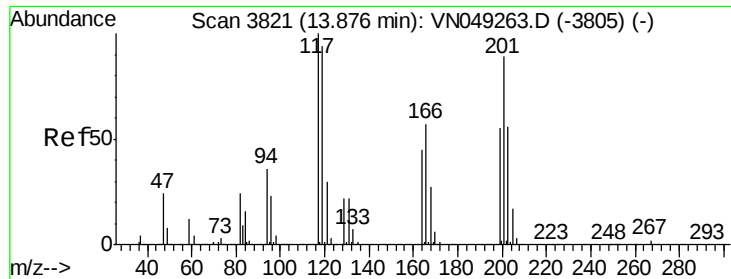
Ion Ratio Lower Upper

75 100

53 0.0 82.7 124.1#

89 0.0 36.5 54.7#





#90

Hexachloroethane

Concen: Below Cal

RT: 13.83 min Scan# 3806

Delta R.T. -0.05 min

Lab File: VN049620.D

Acq: 29 Jun 2018 5:08

Instrument :

MSVOA_N

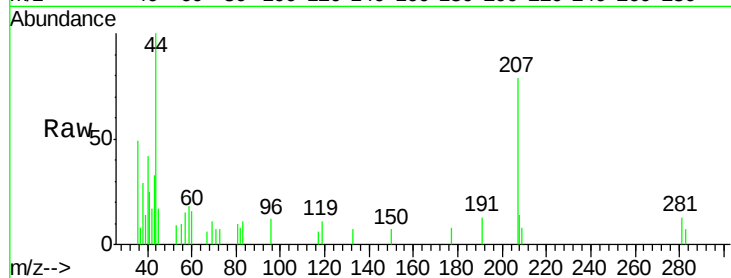
ClientSampleId :

Tot Ion:117 Resp: 30

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

13.83

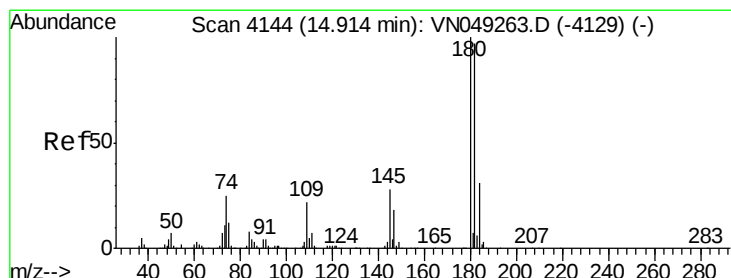
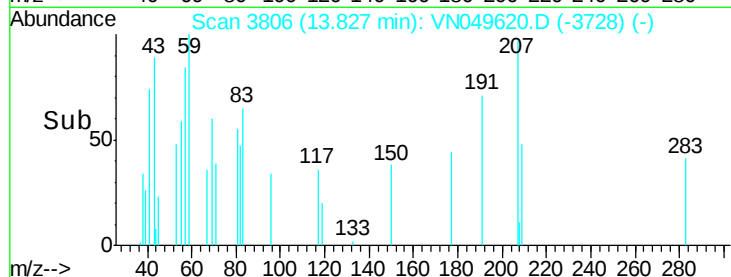
150

100

50

0

Time--> 13.82 13.83



#93

1,2,4-Trichlorobenzene

Concen: 4.75 ug/l

RT: 14.91 min Scan# 4142

Delta R.T. -0.01 min

Lab File: VN049620.D

Acq: 29 Jun 2018 5:08

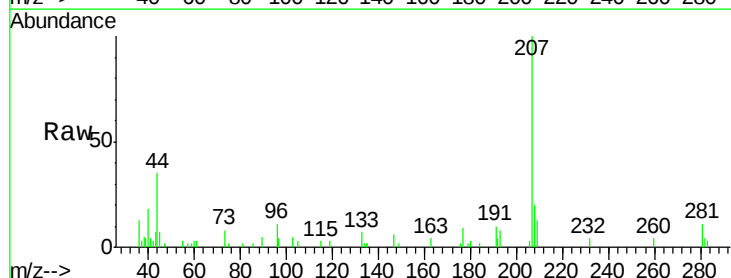
Tgt Ion:180 Resp: 105

Ion Ratio Lower Upper

180 100

182 110.5 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

14.91

300

250

200

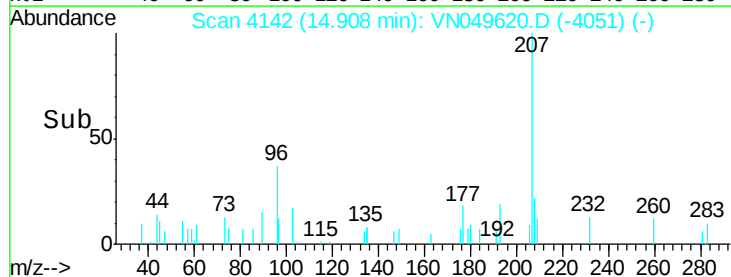
150

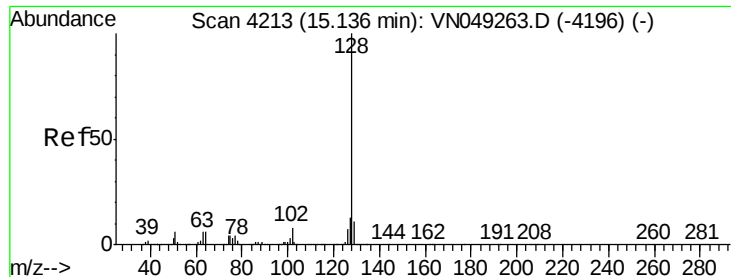
100

50

0

Time--> 14.89 14.90 14.91 14.92

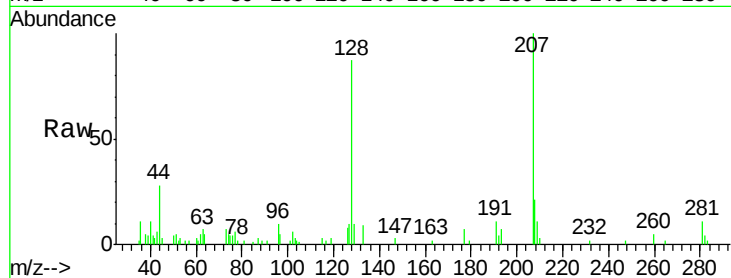




#95
Naphthalene
Concen: 3.23 ug/l
RT: 15.14 min Scan# 4214
Delta R.T. 0.00 min
Lab File: VN049620.D
Acq: 29 Jun 2018 5:08

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	9.2	10.6	16.0#
129	10.9	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

