

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071918\
 Data File : VN049942.D
 Acq On : 20 Jul 2018 3:14
 Operator : MD\SY
 Sample : J4035-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-3

Quant Time: Jul 20 05:22:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 19 01:58:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	549661	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	934684	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	788886	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	300973	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	399982	52.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.88%	
35) Dibromofluoromethane	7.59	113	354458	45.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.34%	
50) Toluene-d8	10.09	98	1256918	43.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.92%	
62) 4-Bromofluorobenzene	12.40	95	349869	35.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	71.06%	

Target Compounds

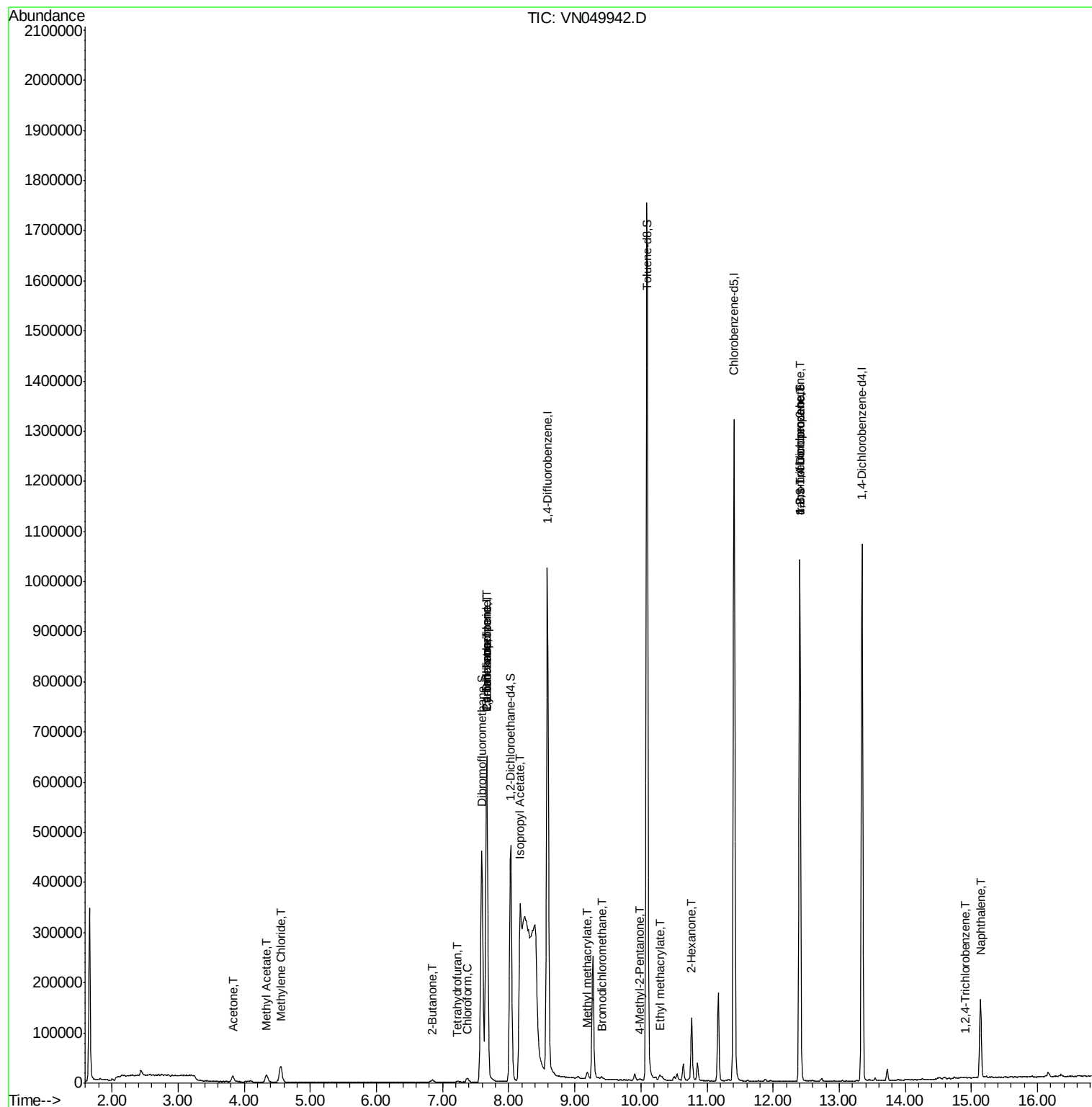
						Qvalue
5) Bromomethane	2.55	94	198	Below Cal		88
16) Acetone	3.83	43	18914	9.67 ug/l		97
18) Methyl Acetate	4.33	43	30523	4.21 ug/l		93
20) Methylene Chloride	4.55	84	24383	3.28 ug/l		94
25) 2-Butanone	6.85	43	5127	1.83 ug/l	#	82
29) Tetrahydrofuran	7.22	42	1652	0.94 ug/l	#	54
30) Chloroform	7.37	83	7987	0.63 ug/l		89
31) Cyclohexane	7.66	56	10345	1.03 ug/l	#	1
36) 1,1-Dichloropropene	7.66	75	39472	3.80 ug/l	#	49
38) Carbon Tetrachloride	7.67	117	50557	4.54 ug/l	#	16
43) Isopropyl Acetate	8.17	43	410844	32.95 ug/l	#	85
47) Bromodichloromethane	9.41	83	2331	0.21 ug/l	#	90
48) Methyl methacrylate	9.18	41	7980	1.28 ug/l	#	21
51) 4-Methyl-2-Pentanone	9.98	43	1672	0.24 ug/l	#	84
56) Ethyl methacrylate	10.27	69	104	2.17 ug/l	#	1
59) 2-Hexanone	10.77	43	17404	3.72 ug/l	#	59
76) 1,2,3-Trichloropropane	12.40	75	172947	30.63 ug/l	#	100
81) trans-1,4-Dichloro-2-buten	12.40	75	172947	95.79 ug/l	#	13
93) 1,2,4-Trichlorobenzene	14.91	180	29	3.48 ug/l	#	1
95) Naphthalene	15.14	128	139415	13.39 ug/l		99

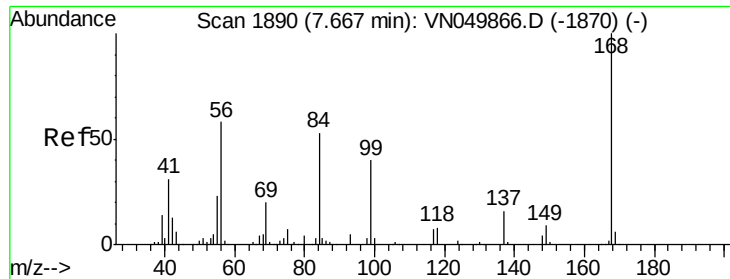
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jul 19 01:58:39 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: VN049942.D

Acq: 20 Jul 2018 3:14

Instrument :

MSVOA_N

ClientSampled :

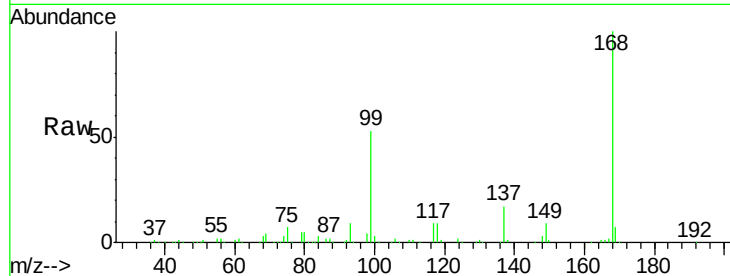
MH-3

Tot Ion:168 Resp: 549661

Ion Ratio Lower Upper

168 100

99 52.6 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

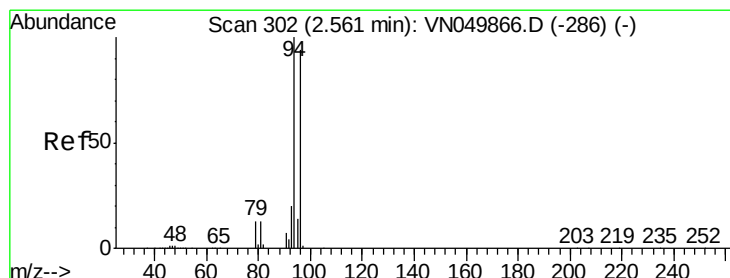
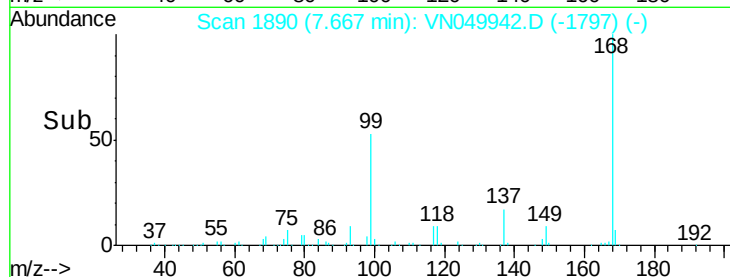
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 300

Delta R.T. -0.01 min

Lab File: VN049942.D

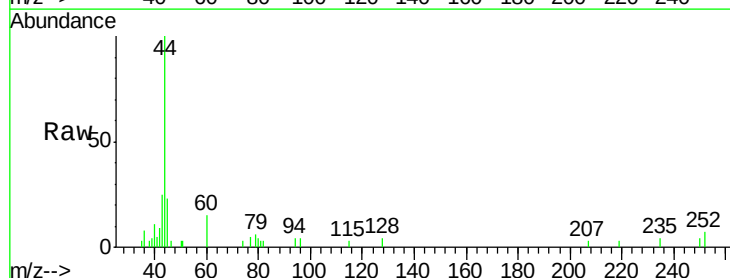
Acq: 20 Jul 2018 3:14

Tgt Ion: 94 Resp: 198

Ion Ratio Lower Upper

94 100

96 82.9 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

2.55

500

400

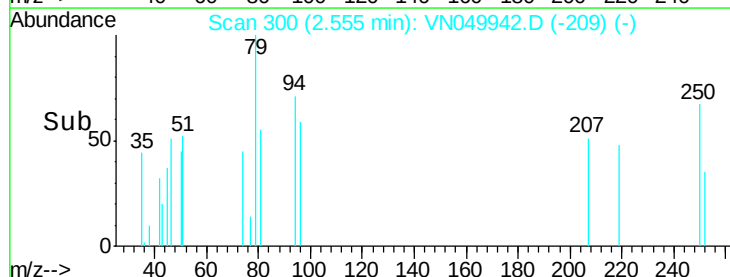
300

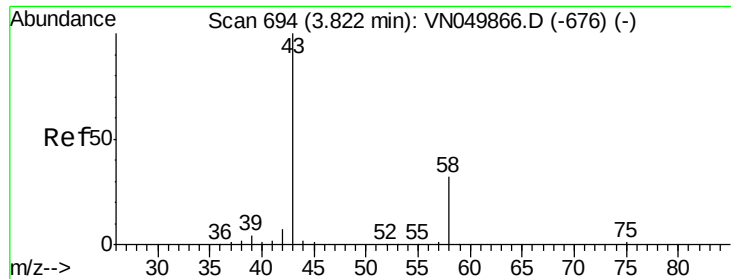
200

100

0

Time-->





#16

Acetone

Concen: 9.67 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN049942.D

Acq: 20 Jul 2018 3:14

Instrument :

MSVOA_N

ClientSampled :

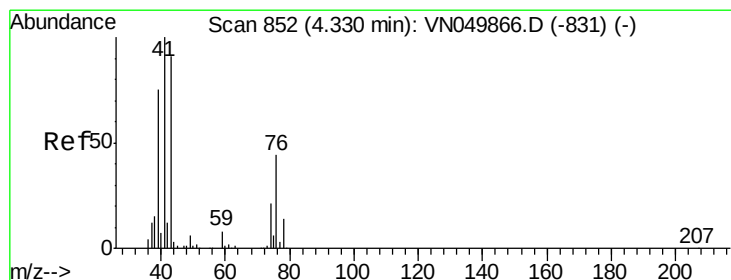
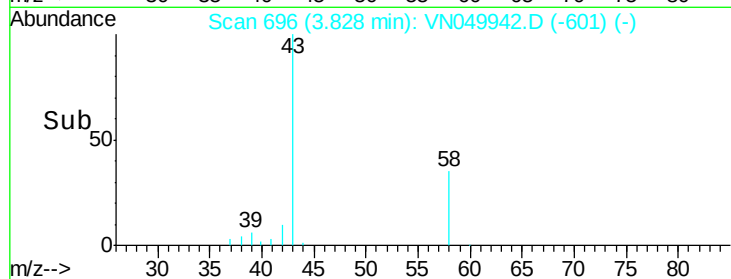
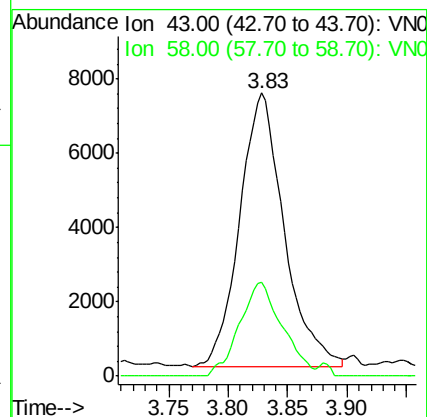
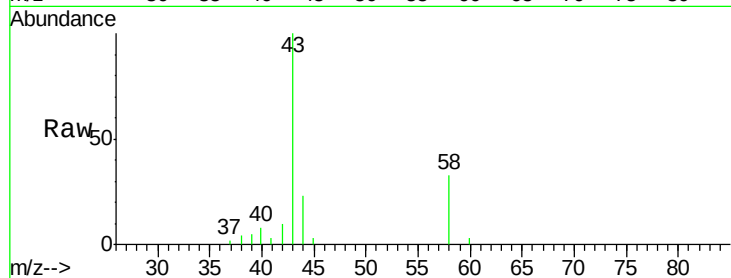
MH-3

Tot Ion: 43 Resp: 18914

Ion Ratio Lower Upper

43 100

58 34.3 25.9 38.9



#18

Methyl Acetate

Concen: 4.21 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.00 min

Lab File: VN049942.D

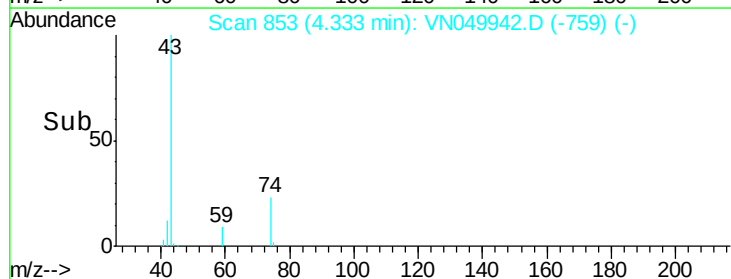
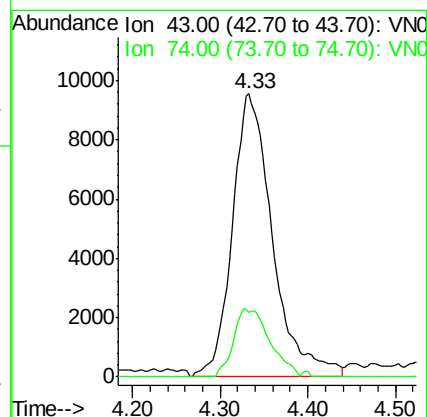
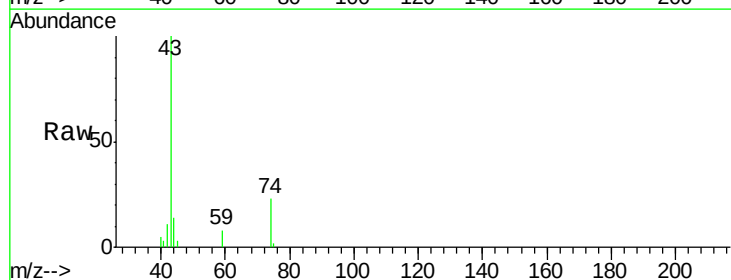
Acq: 20 Jul 2018 3:14

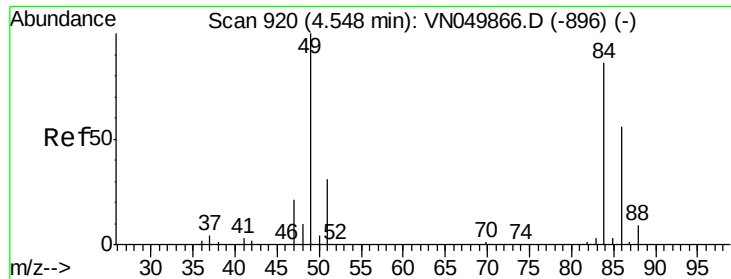
Tgt Ion: 43 Resp: 30523

Ion Ratio Lower Upper

43 100

74 21.5 19.8 29.8

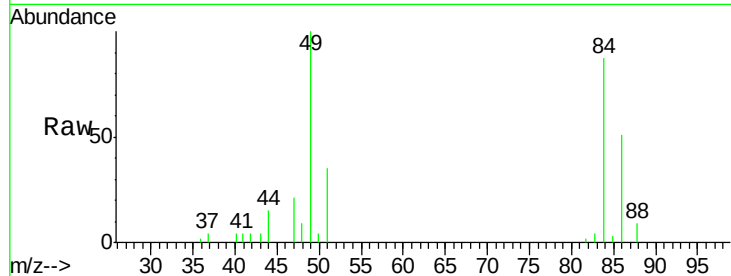




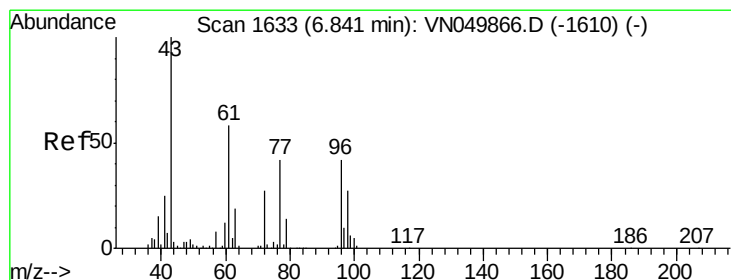
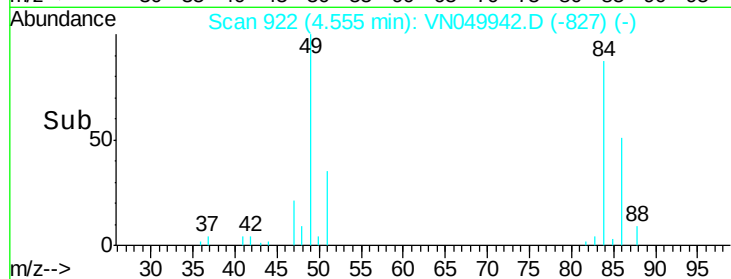
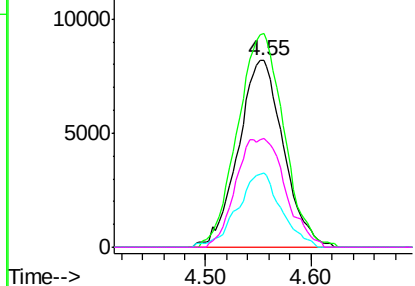
#20
Methvlene Chloride
Concen: 3.28 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.01 min
Lab File: VN049942.D
Acq: 20 Jul 2018 3:14

Instrument :
MSVOA_N
ClientSampled :
MH-3

Tot Ion:	84	Resp:	24383
Ion	Ratio	Lower	Upper
84	100		
49	114.5	95.4	143.2
51	39.8	28.4	42.6
86	58.4	52.6	79.0

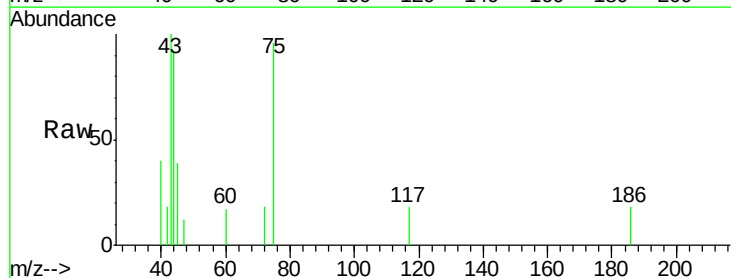


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

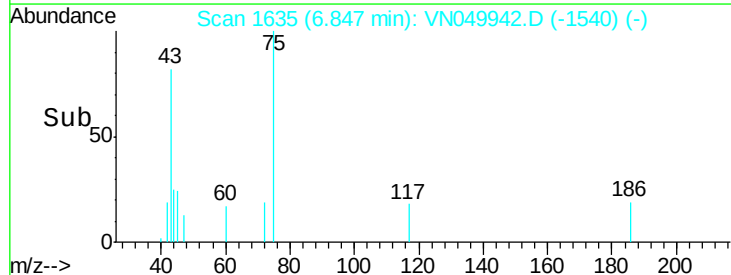
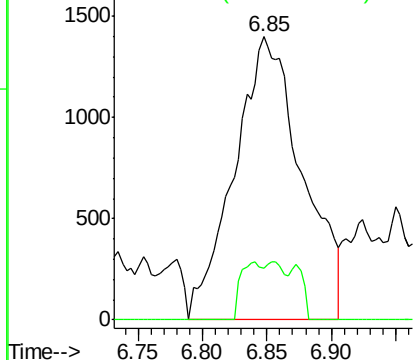


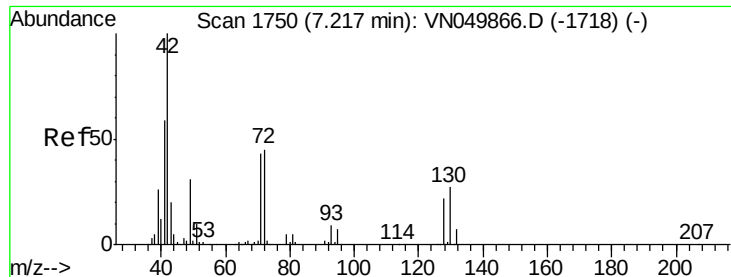
#25
2-Butanone
Concen: 1.83 ug/l
RT: 6.85 min Scan# 1635
Delta R.T. 0.01 min
Lab File: VN049942.D
Acq: 20 Jul 2018 3:14

Tgt Ion:	43	Resp:	5127
Ion	Ratio	Lower	Upper
43	100		
72	18.2	22.1	33.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.94 ug/l

RT: 7.22 min Scan# 1752

Delta R.T. 0.01 min

Lab File: VN049942.D

Acq: 20 Jul 2018 3:14

Instrument :

MSVOA_N

ClientSampled :

MH-3

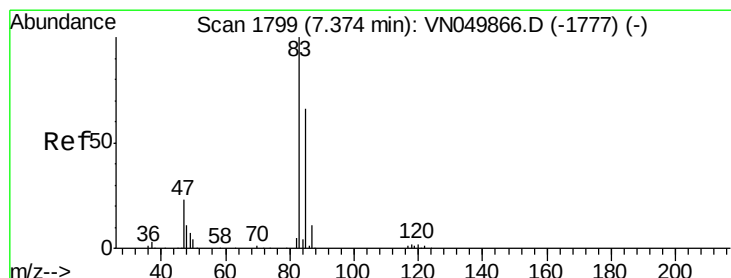
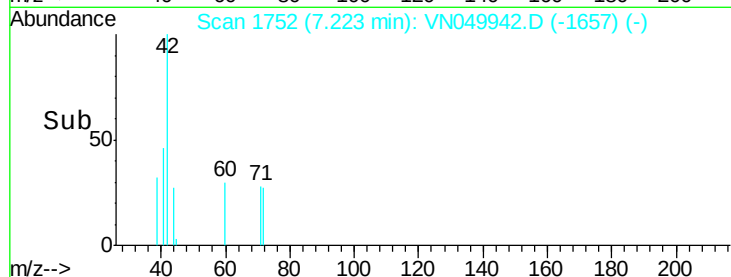
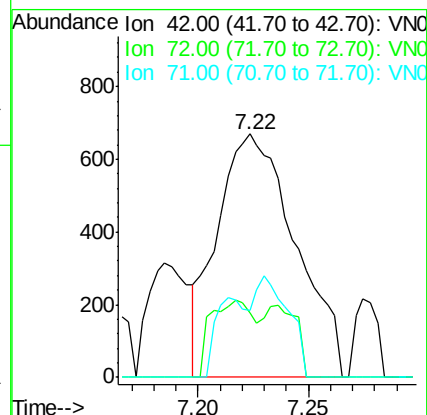
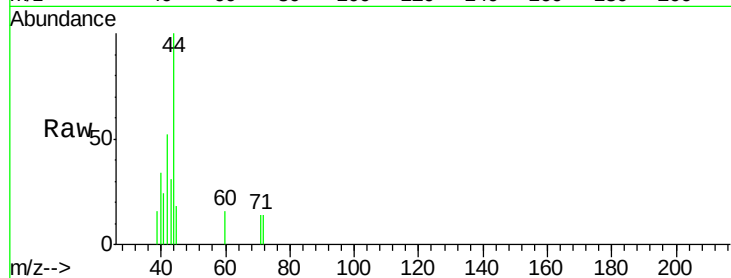
Tot Ion: 42 Resp: 1652

Ion Ratio Lower Upper

42 100

72 10.6 35.6 53.4#

71 17.6 34.0 51.0#



#30

Chloroform

Concen: 0.63 ug/l

RT: 7.37 min Scan# 1798

Delta R.T. -0.00 min

Lab File: VN049942.D

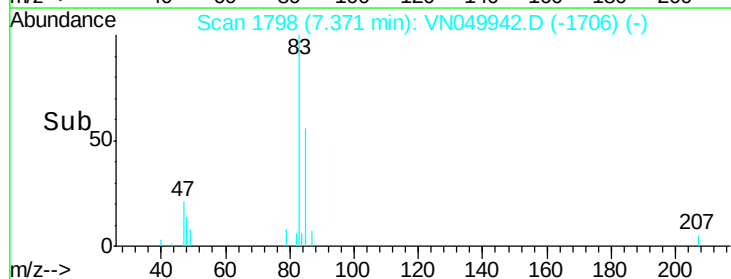
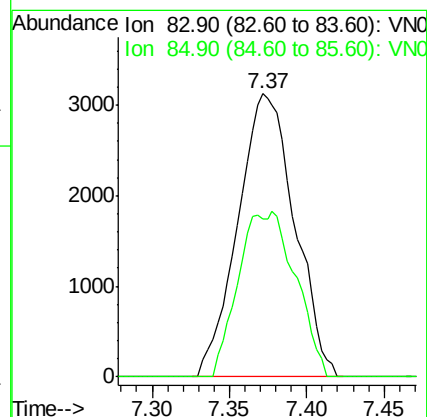
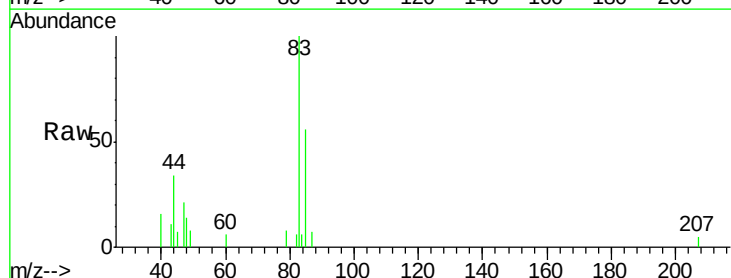
Acq: 20 Jul 2018 3:14

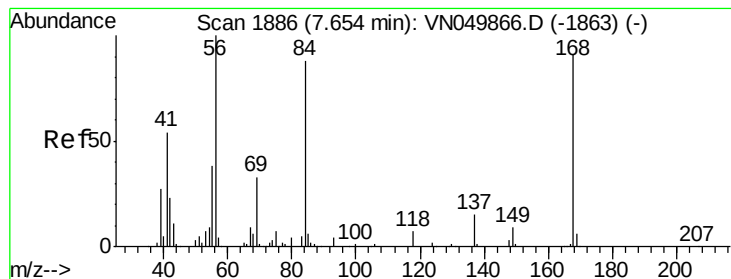
Tgt Ion: 83 Resp: 7987

Ion Ratio Lower Upper

83 100

85 55.6 51.4 77.2





#31

Cyclohexane

Concen: 1.03 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. 0.01 min

Lab File: VN049942.D

Acq: 20 Jul 2018 3:14

Instrument :

MSVOA_N

ClientSampled :

MH-3

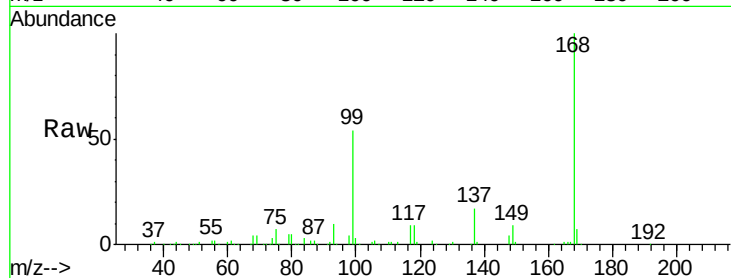
Tot Ion: 56 Resp: 10345

Ion Ratio Lower Upper

56 100

69 199.0 26.6 40.0#

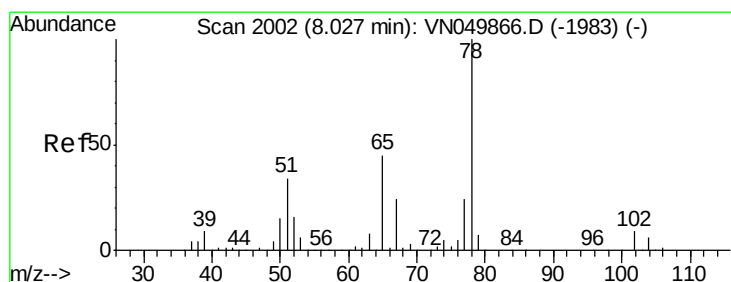
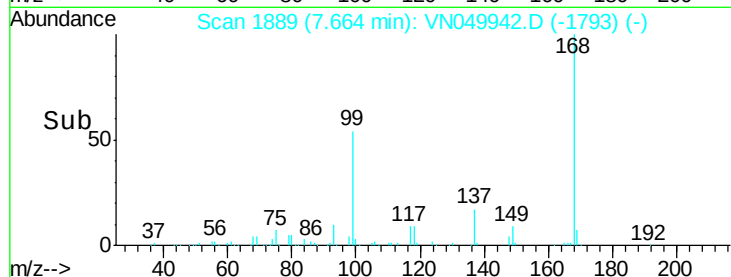
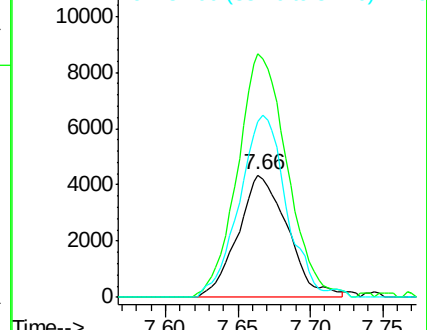
84 143.6 69.0 103.6#



Abundance Ion 56.00 (55.70 to 56.70): VN049866.D (-1863) (-)

Ion 69.00 (68.70 to 69.70): VN049866.D (-1863) (-)

Ion 84.00 (83.70 to 84.70): VN049866.D (-1863) (-)



#33

1,2-Dichloroethane-d4

Concen: 52.94 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049942.D

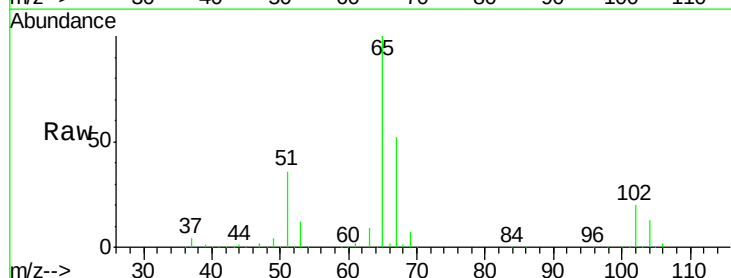
Acq: 20 Jul 2018 3:14

Tgt Ion: 65 Resp: 399982

Ion Ratio Lower Upper

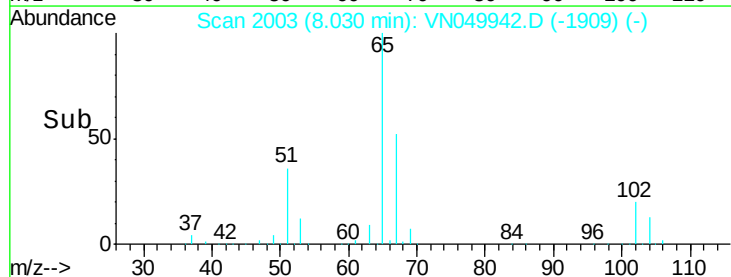
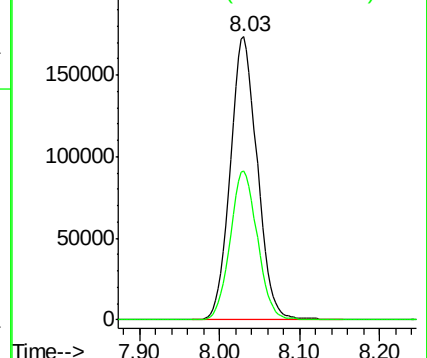
65 100

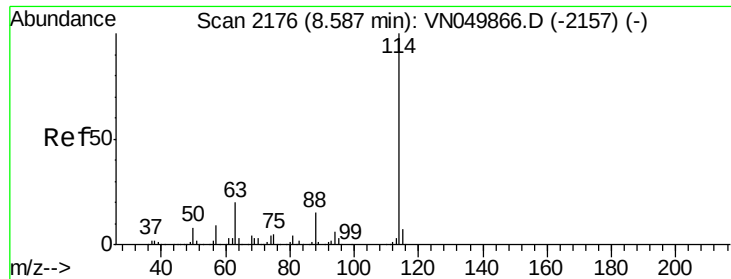
67 53.0 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VN049866.D (-1983) (-)

Ion 66.90 (66.60 to 67.60): VN049866.D (-1983) (-)





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VN049942.D

Acq: 20 Jul 2018 3:14

Instrument :

MSVOA_N

ClientSampled :

MH-3

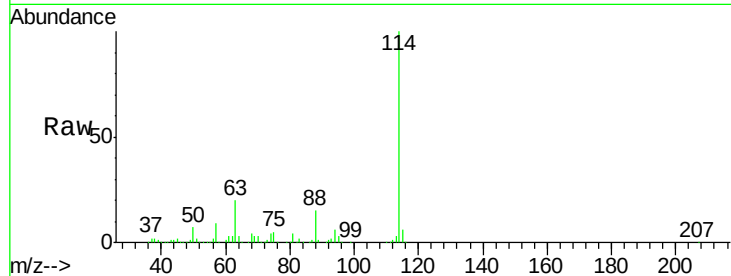
Tot Ion:114 Resp: 934684

Ion Ratio Lower Upper

114 100

63 20.3 0.0 39.8

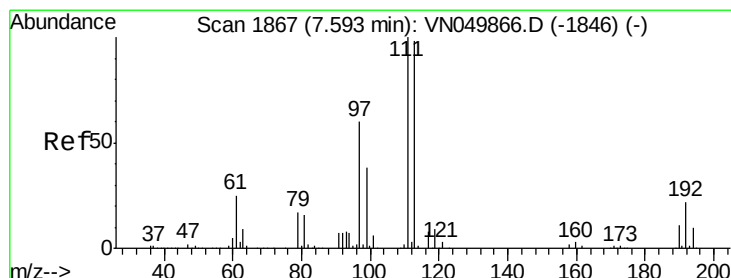
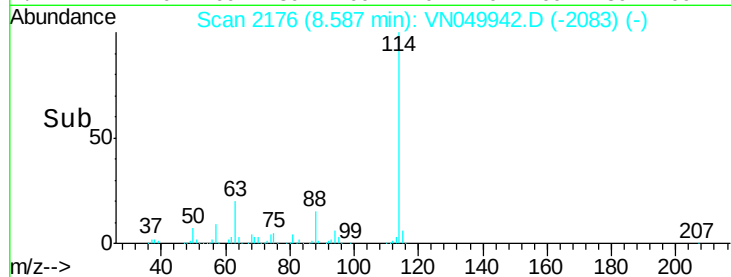
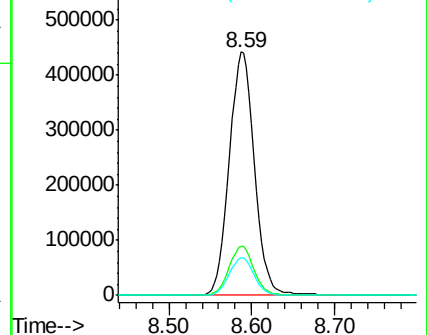
88 15.5 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 45.17 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN049942.D

Acq: 20 Jul 2018 3:14

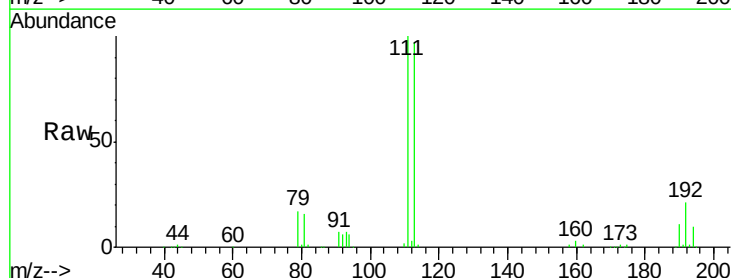
Tgt Ion:113 Resp: 354458

Ion Ratio Lower Upper

113 100

111 100.9 81.8 122.8

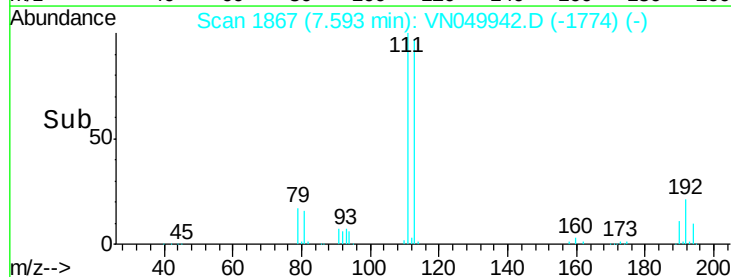
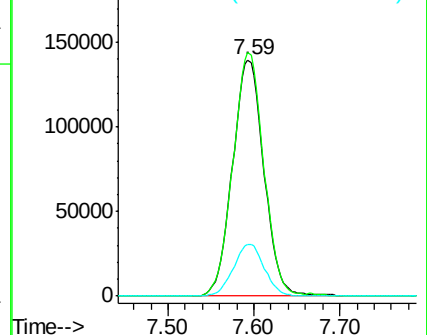
192 21.7 17.8 26.6

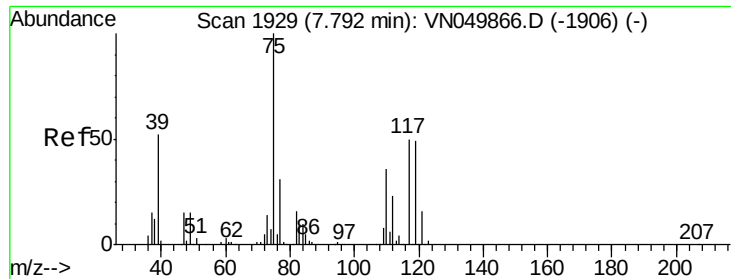


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.80 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. -0.13 min

Lab File: VN049942.D

Acq: 20 Jul 2018 3:14

Instrument :

MSVOA_N

ClientSampled :

MH-3

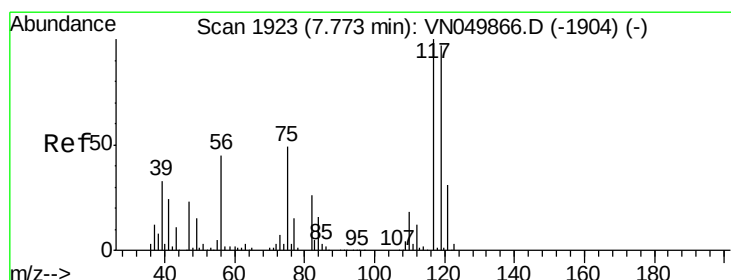
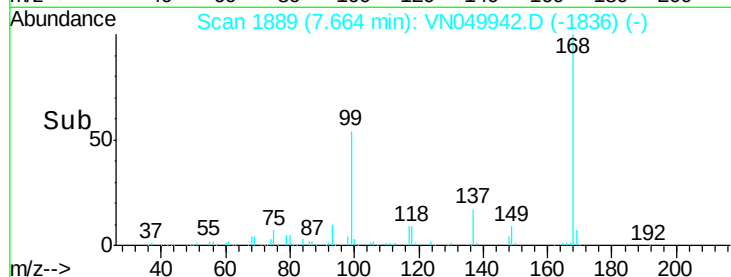
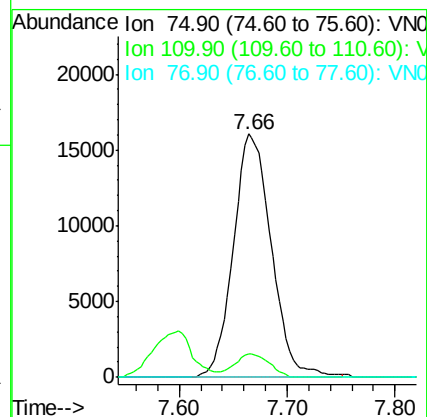
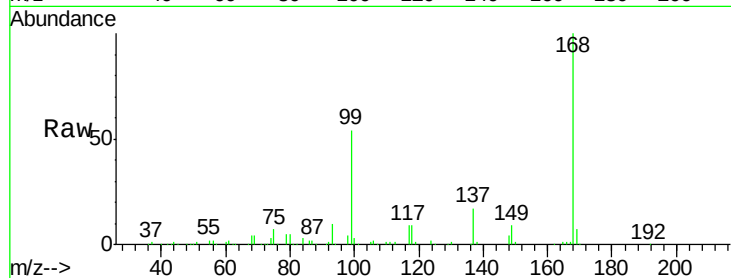
Tot Ion: 75 Resp: 39472

Ion Ratio Lower Upper

75 100

110 9.0 18.1 54.4#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 4.54 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN049942.D

Acq: 20 Jul 2018 3:14

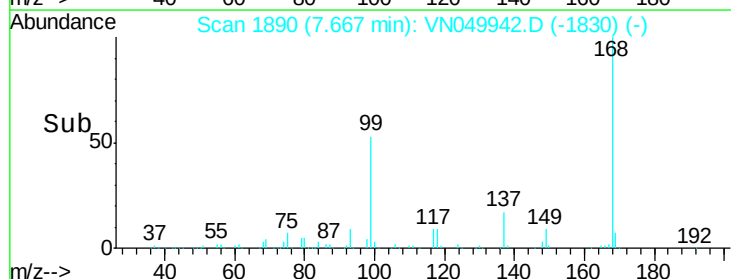
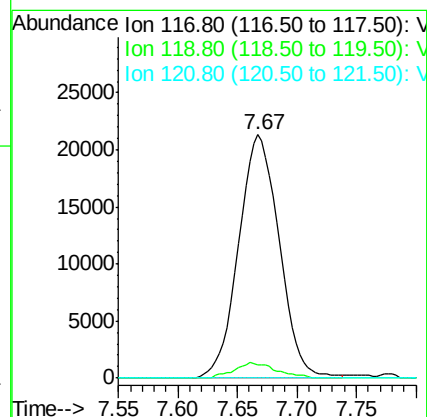
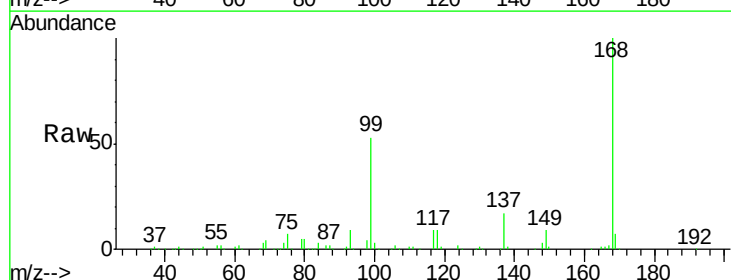
Tgt Ion: 117 Resp: 50557

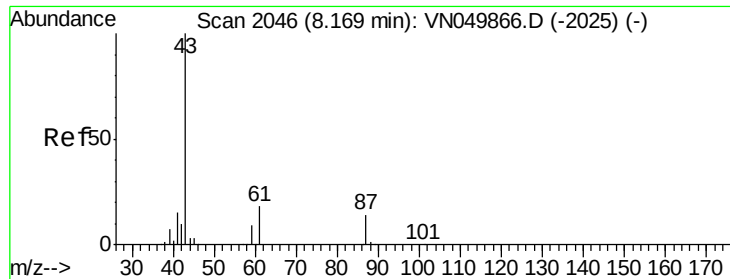
Ion Ratio Lower Upper

117 100

119 5.7 77.2 115.8#

121 0.0 25.0 37.6#





#43

Isopropyl Acetate

Concen: 32.95 ug/l

RT: 8.17 min Scan# 2047

Delta R.T. 0.00 min

Lab File: VN049942.D

Acq: 20 Jul 2018 3:14

Instrument :

MSVOA_N

ClientSampled :

MH-3

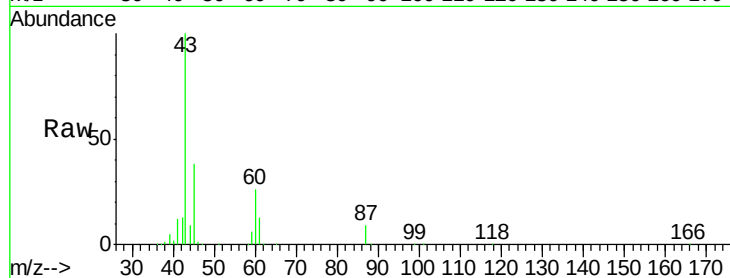
Tot Ion: 43 Resp: 410844

Ion Ratio Lower Upper

43 100

61 11.5 14.9 22.3#

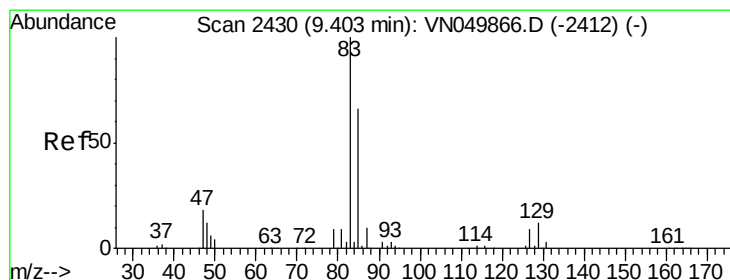
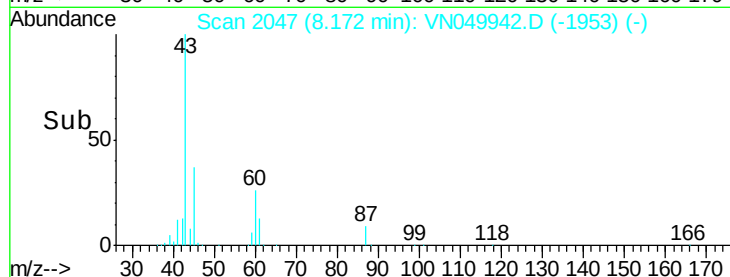
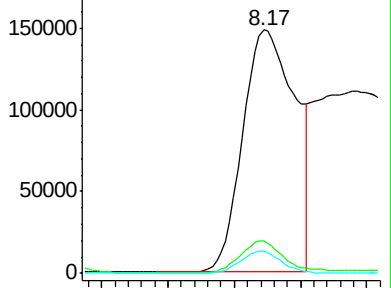
87 7.1 10.0 15.0#



Abundance Ion 43.00 (42.70 to 43.70): VN049866.D (-2025) (-)

Ion 61.00 (60.70 to 61.70): VN049866.D (-2025) (-)

Ion 87.00 (86.70 to 87.70): VN049866.D (-2025) (-)



#47

Bromodichloromethane

Concen: 0.21 ug/l

RT: 9.41 min Scan# 2431

Delta R.T. 0.00 min

Lab File: VN049942.D

Acq: 20 Jul 2018 3:14

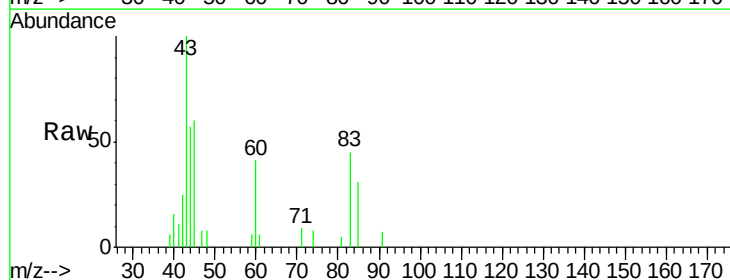
Tgt Ion: 83 Resp: 2331

Ion Ratio Lower Upper

83 100

85 69.3 50.5 75.7

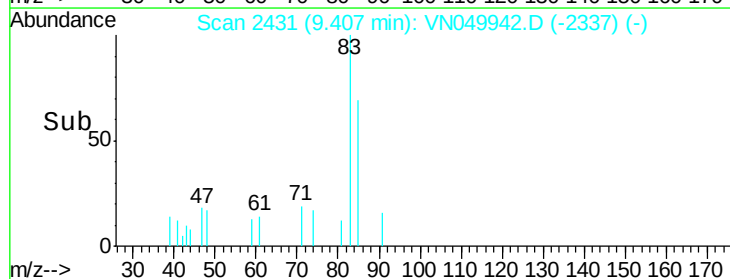
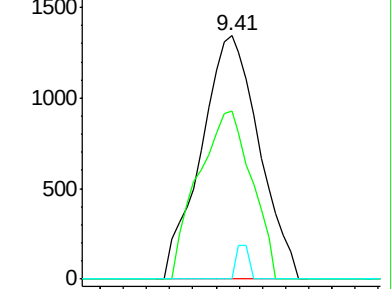
127 0.0 6.8 10.2#

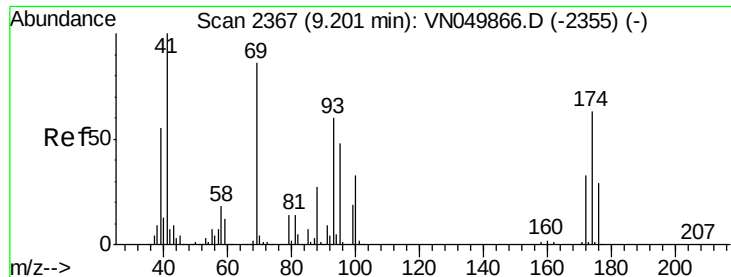


Abundance Ion 82.90 (82.60 to 83.60): VN049866.D (-2412) (-)

Ion 84.90 (84.60 to 85.60): VN049866.D (-2412) (-)

Ion 126.80 (126.50 to 127.50): VN049866.D (-2412) (-)

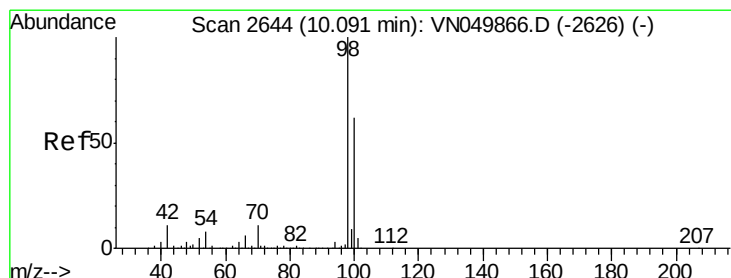
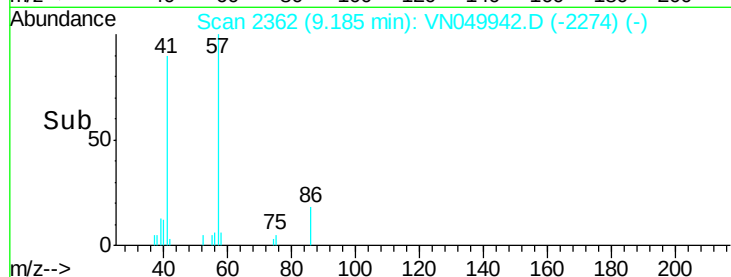
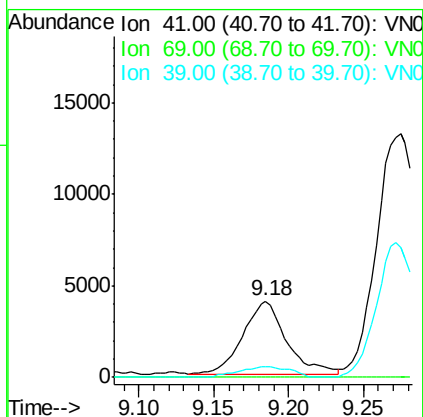
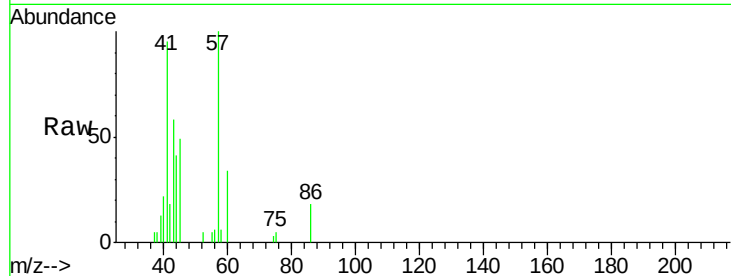




#48
Methvl methacrylate
Concen: 1.28 ug/l
RT: 9.18 min Scan# 2362
Delta R.T. -0.02 min
Lab File: VN049942.D
Acq: 20 Jul 2018 3:14

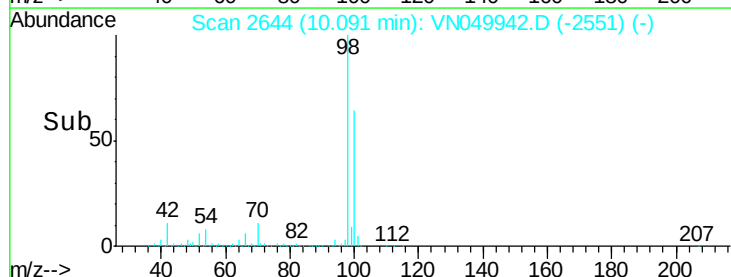
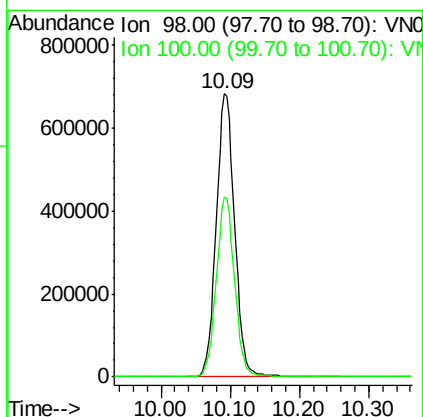
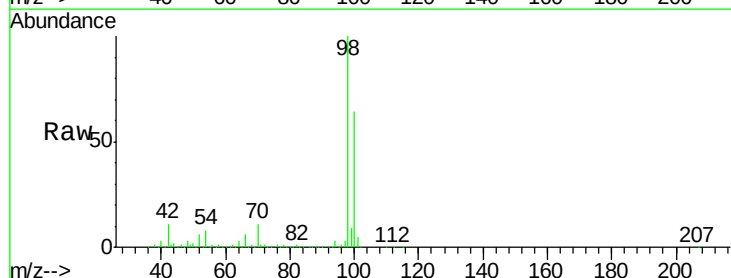
Instrument :
MSVOA_N
ClientSampleId :
MH-3

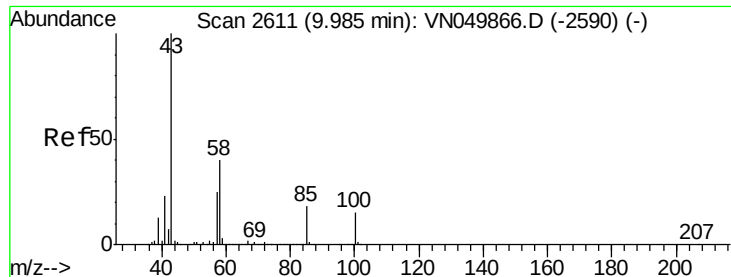
Tot Ion: 41 Resp: 7980
Ion Ratio Lower Upper
41 100
69 0.0 71.5 107.3#
39 17.7 44.7 67.1#



#50
Toluene-d8
Concen: 43.96 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN049942.D
Acq: 20 Jul 2018 3:14

Tgt Ion: 98 Resp: 1256918
Ion Ratio Lower Upper
98 100
100 63.2 51.7 77.5

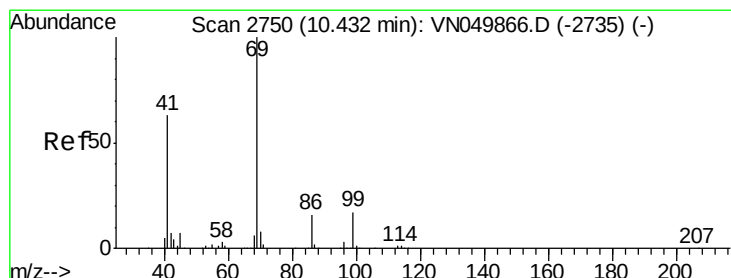
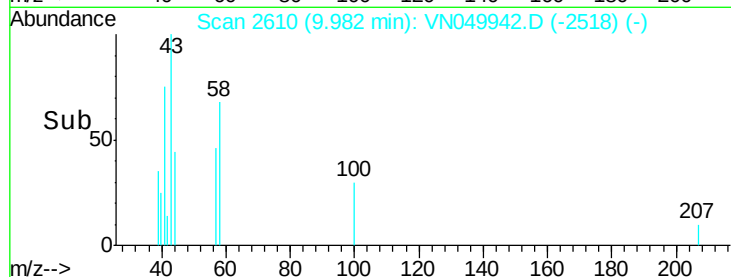
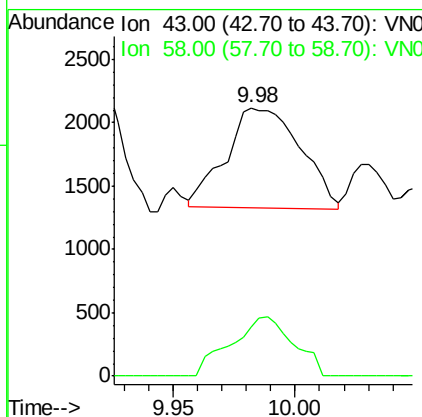
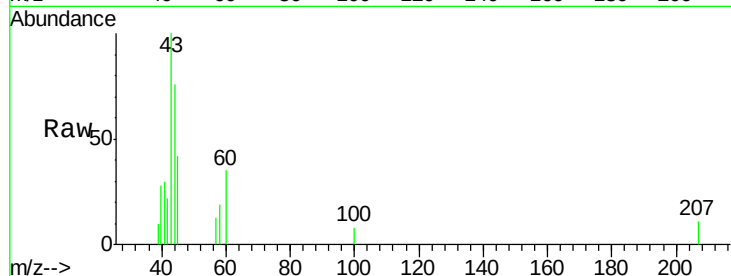




#51
4-Methyl-2-Pentanone
Concen: 0.24 ug/l
RT: 9.98 min Scan# 2610
Delta R.T. -0.00 min
Lab File: VN049942.D
Acq: 20 Jul 2018 3:14

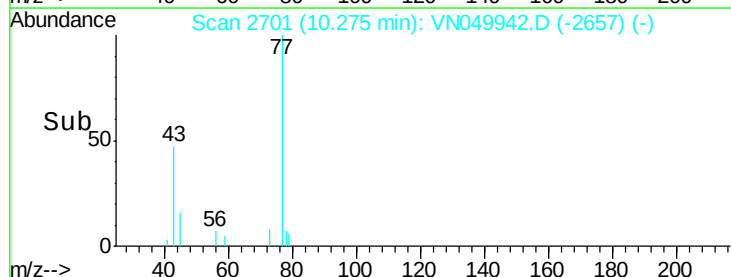
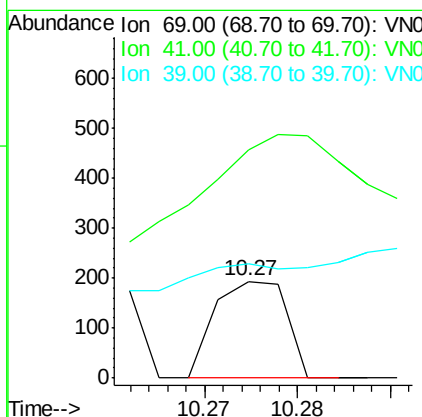
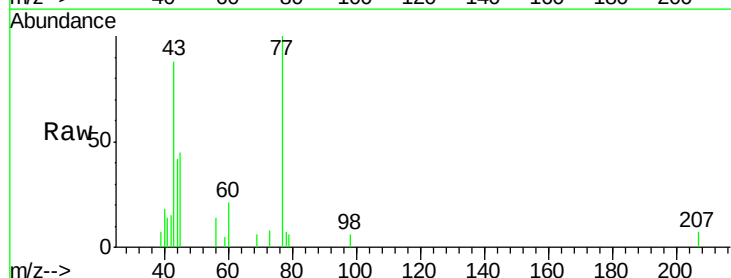
Instrument :
MSVOA_N
ClientSampled :
MH-3

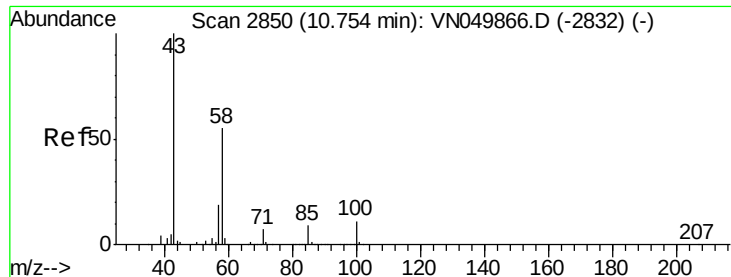
Tot Ion: 43 Resp: 1672
Ion Ratio Lower Upper
43 100
58 49.9 31.8 47.8#



#56
Ethyl methacrylate
Concen: 2.17 ug/l
RT: 10.27 min Scan# 2701
Delta R.T. -0.16 min
Lab File: VN049942.D
Acq: 20 Jul 2018 3:14

Tgt Ion: 69 Resp: 104
Ion Ratio Lower Upper
69 100
41 526.0 51.6 77.4#
39 0.0 25.8 38.8#

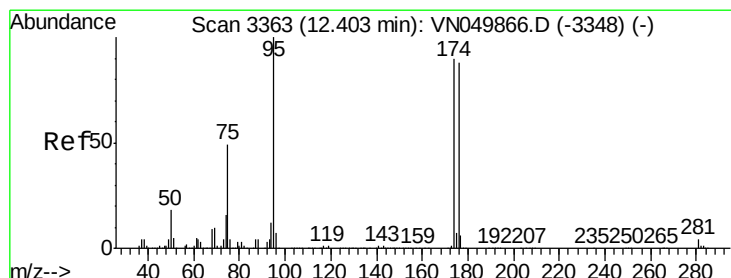
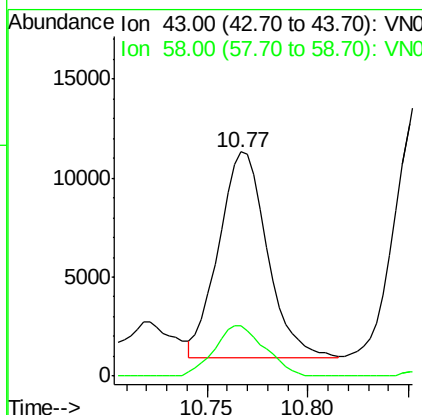
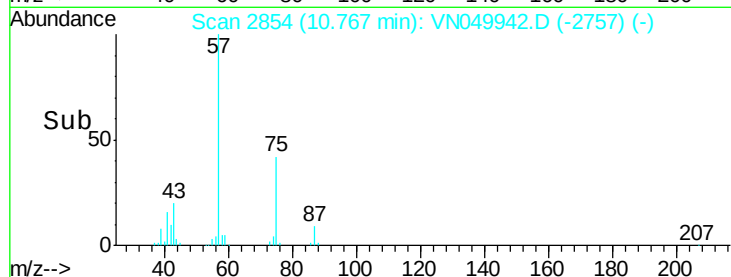
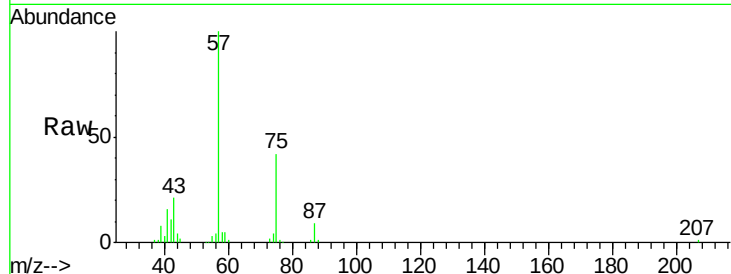




#59
2-Hexanone
Concen: 3.72 ug/l
RT: 10.77 min Scan# 2854
Delta R.T. 0.01 min
Lab File: VN049942.D
Acq: 20 Jul 2018 3:14

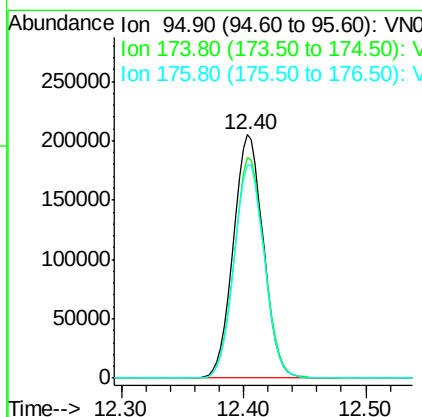
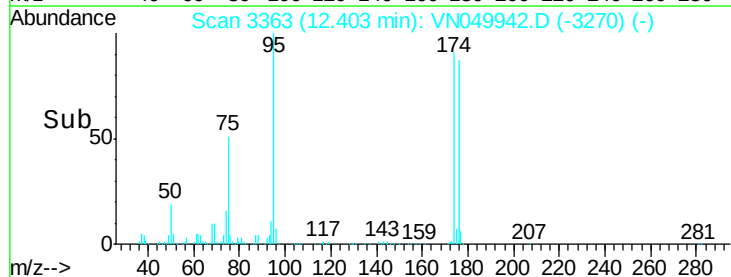
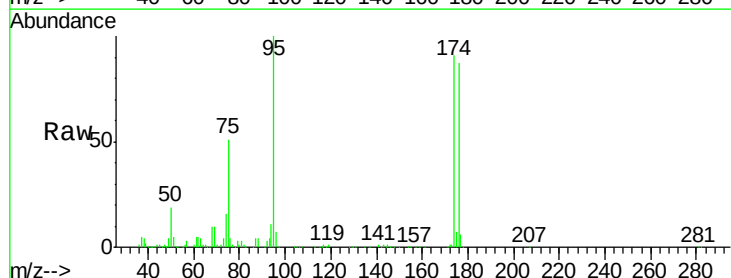
Instrument :
MSVOA_N
ClientSampled :
MH-3

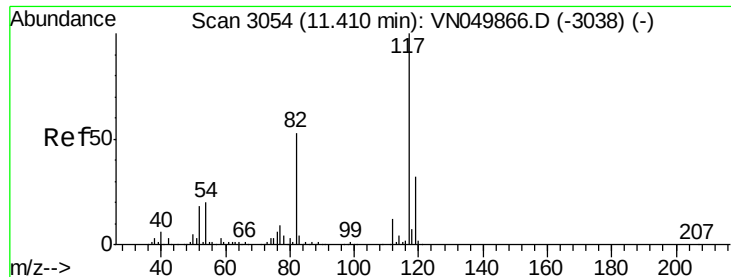
Tot Ion: 43 Resp: 17404
Ion Ratio Lower Upper
43 100
58 25.5 27.8 83.4#



#62
4-Bromofluorobenzene
Concen: 35.53 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN049942.D
Acq: 20 Jul 2018 3:14

Tgt Ion: 95 Resp: 349869
Ion Ratio Lower Upper
95 100
174 91.0 0.0 179.6
176 88.1 0.0 174.0

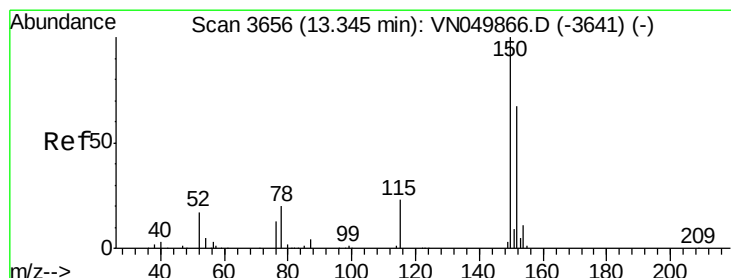
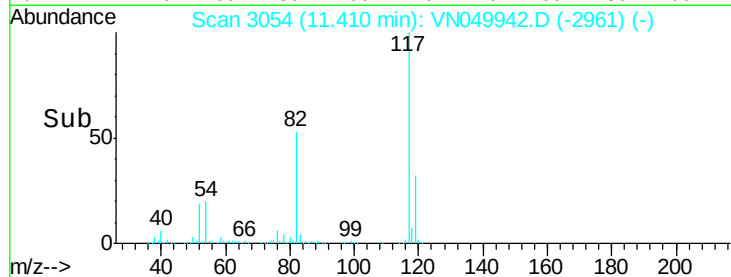
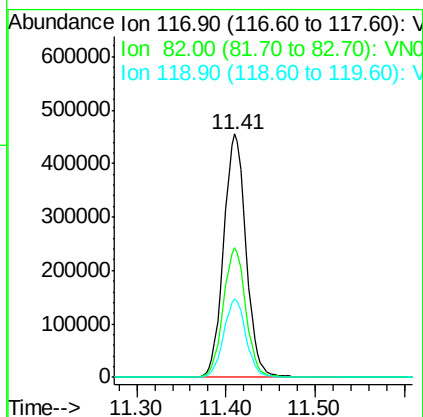
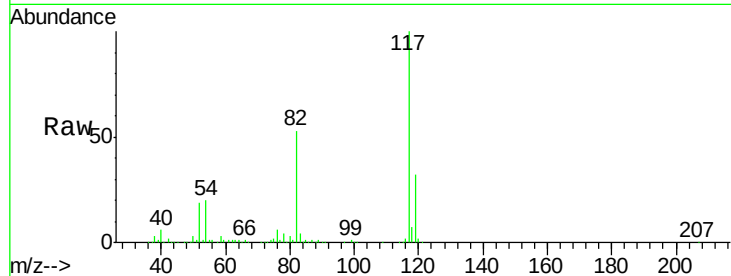




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049942.D
Acq: 20 Jul 2018 3:14

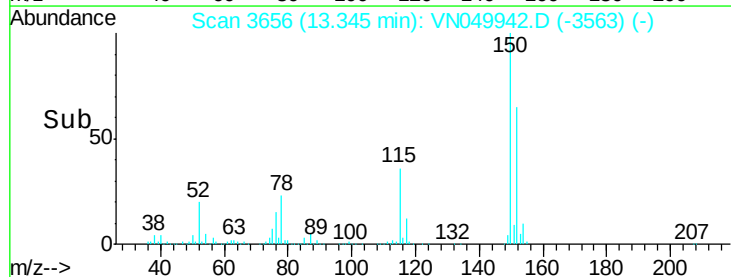
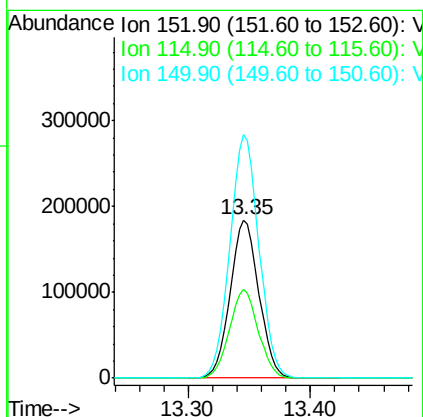
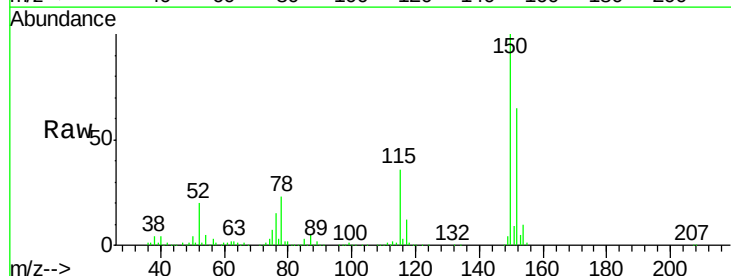
Instrument :
MSVOA_N
ClientSampled :
MH-3

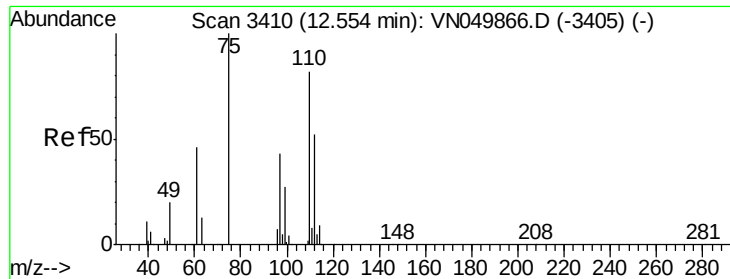
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.2	41.9	62.9
119	32.2	25.4	38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN049942.D
Acq: 20 Jul 2018 3:14

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.4	28.1	84.2
150	155.9	0.0	347.6





#76

1,2,3-Trichloropropane

Concen: 30.63 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049942.D

Acq: 20 Jul 2018 3:14

Instrument :

MSVOA_N

ClientSampleId :

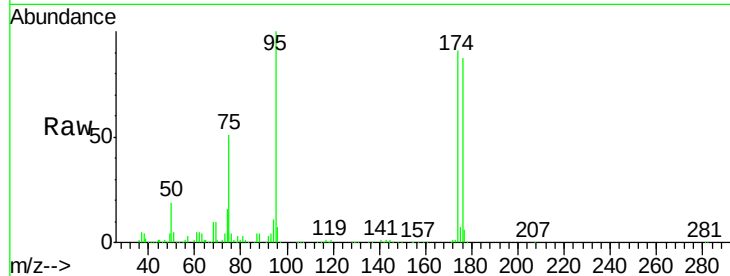
MH-3

Tot Ion: 75 Resp: 172947

Ion Ratio Lower Upper

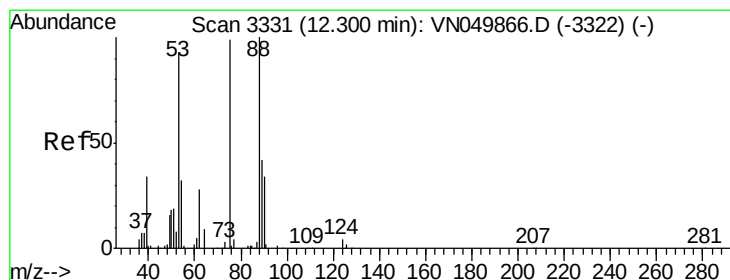
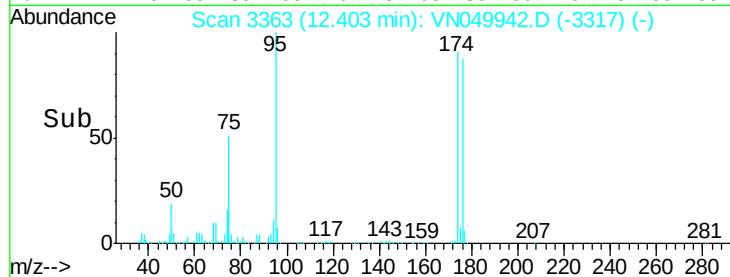
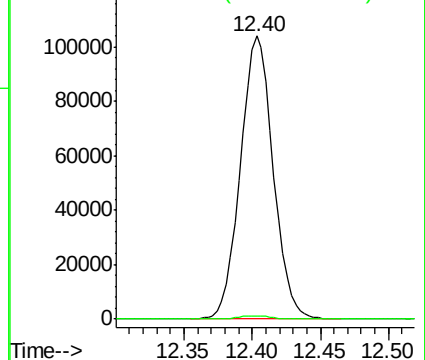
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 95.79 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049942.D

Acq: 20 Jul 2018 3:14

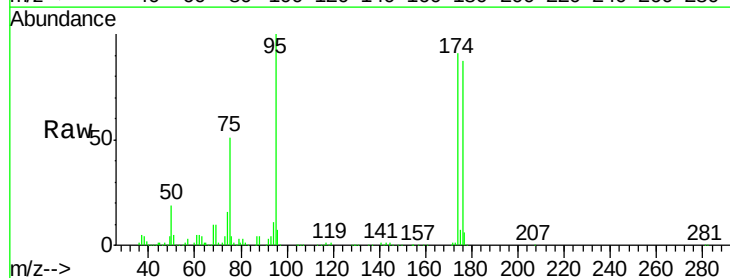
Tgt Ion: 75 Resp: 172947

Ion Ratio Lower Upper

75 100

53 0.3 73.9 110.9#

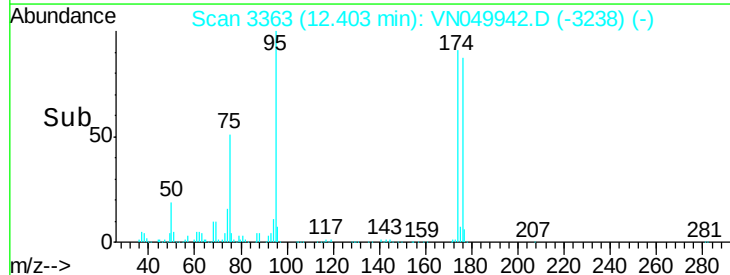
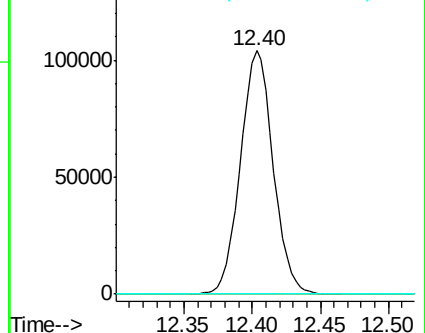
89 0.0 35.9 53.9#

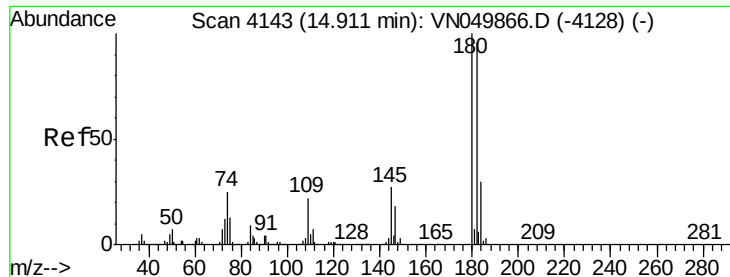


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

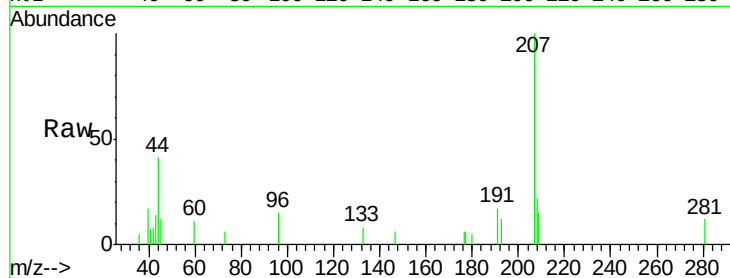




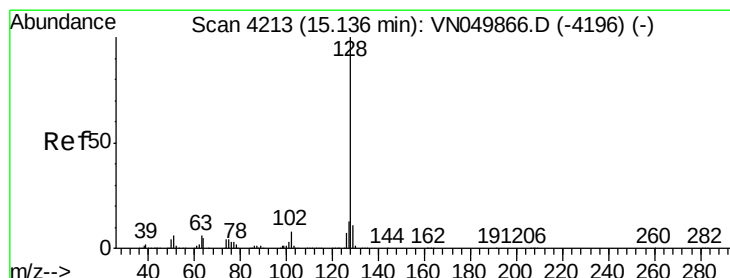
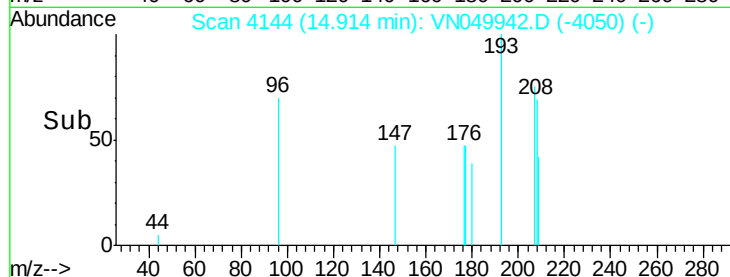
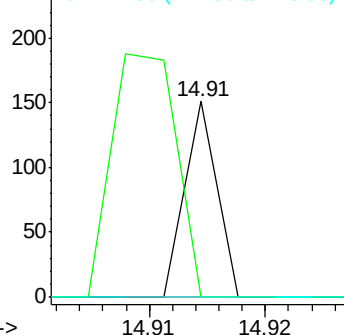
#93
 1,2,4-Trichlorobenzene
 Concen: 3.48 ug/l
 RT: 14.91 min Scan# 4144
 Delta R.T. 0.00 min
 Lab File: VN049942.D
 Acq: 20 Jul 2018 3:14

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-3

Tot Ion:180 Resp: 29
 Ion Ratio Lower Upper
 180 100
 182 248.3 47.3 141.9#
 145 0.0 14.4 43.0#

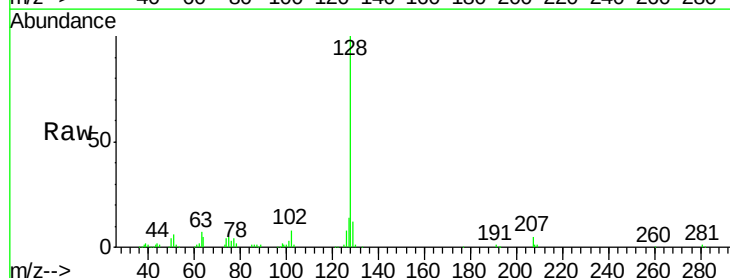


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 13.39 ug/l
 RT: 15.14 min Scan# 4213
 Delta R.T. 0.00 min
 Lab File: VN049942.D
 Acq: 20 Jul 2018 3:14

Tgt Ion:128 Resp: 139415
 Ion Ratio Lower Upper
 128 100
 127 13.6 10.4 15.6
 129 11.1 8.6 13.0



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

