

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070618\
 Data File : VN049749.D
 Acq On : 6 Jul 2018 19:39
 Operator : MD\SY
 Sample : J3869-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-2

Quant Time: Jul 06 22:55:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062918W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 30 00:55:30 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1495079	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2578095	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2156469	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	793921	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	1106443	56.04	ug/l	0.00
Spiked Amount			Recovery	=	112.08%	
35) Dibromofluoromethane	7.59	113	913408	47.39	ug/l	0.00
Spiked Amount			Recovery	=	94.78%	
50) Toluene-d8	10.09	98	3479587	46.12	ug/l	0.00
Spiked Amount			Recovery	=	92.24%	
62) 4-Bromofluorobenzene	12.40	95	1016710	39.47	ug/l	0.00
Spiked Amount			Recovery	=	78.94%	

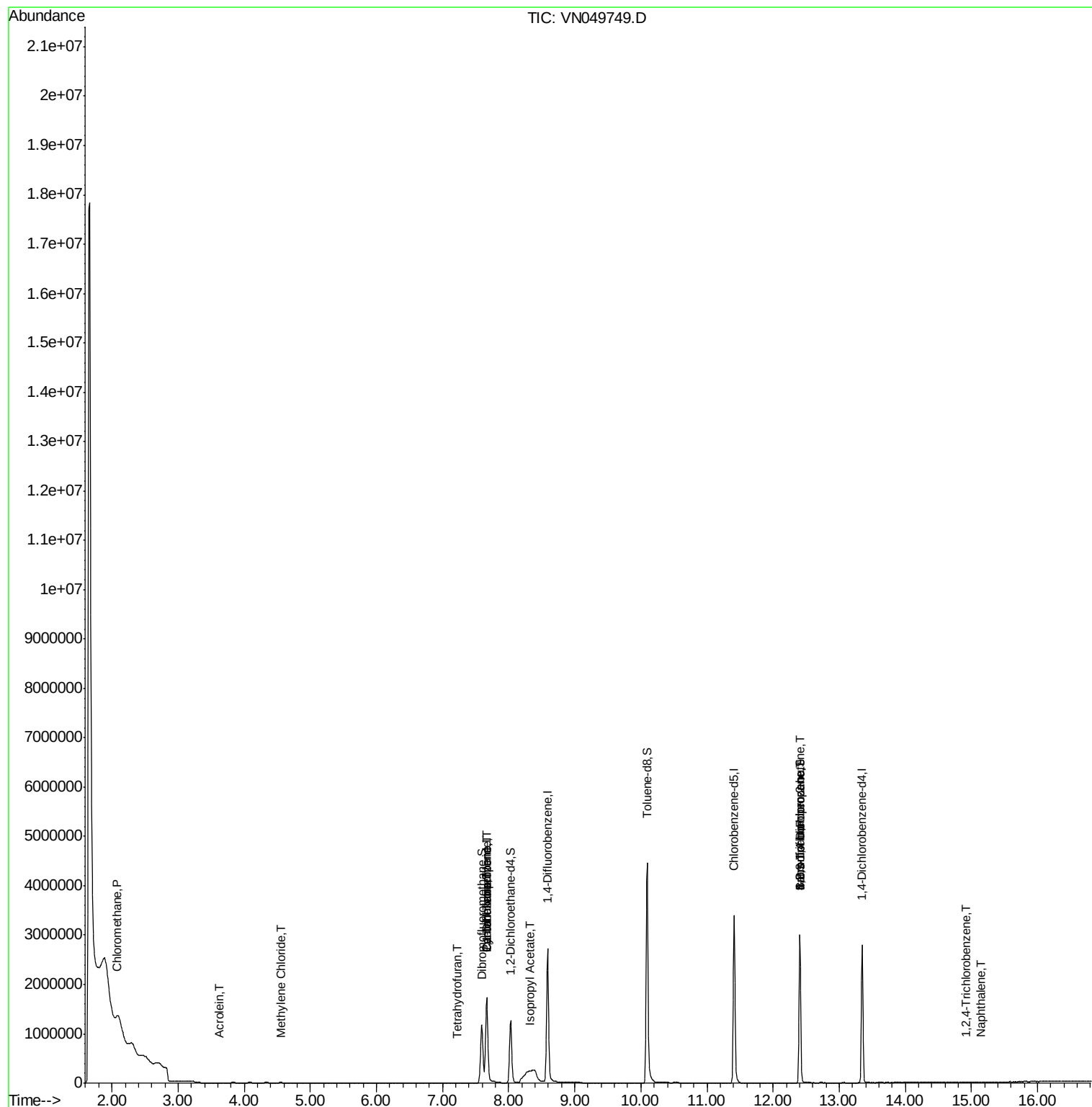
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	6872	0.33	ug/l #	84
13) Acrolein	3.62	56	406	0.38	ug/l #	11
16) Acetone	3.82	43	22361	Below Cal		100
17) Carbon Disulfide	4.05	76	839	Below Cal	#	75
18) Methyl Acetate	4.34	43	30581	Below Cal		92
20) Methylene Chloride	4.55	84	7014	0.34	ug/l	95
29) Tetrahydrofuran	7.22	42	1168	0.28	ug/l #	42
31) Cyclohexane	7.67	56	28887	0.24	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	106416	3.67	ug/l #	49
38) Carbon Tetrachloride	7.67	117	136614	4.84	ug/l #	17
43) Isopropyl Acetate	8.32	43	542911	15.77	ug/l #	62
71) Bromoform	12.40	173	7460	0.56	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.47	83	30	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	500153	39.28	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	500153	133.41	ug/l #	13
87) 1,3-Dichlorobenzene	13.29	146	31	Below Cal	#	25
88) 1,4-Dichlorobenzene	13.37	146	219	Below Cal	#	25
91) 1,2-Dichlorobenzene	13.67	146	68	Below Cal	#	25
92) 1,2-Dibromo-3-Chloropropan	14.32	75	132	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.92	180	130	2.41	ug/l #	58
95) Naphthalene	15.14	128	593	4.06	ug/l #	76

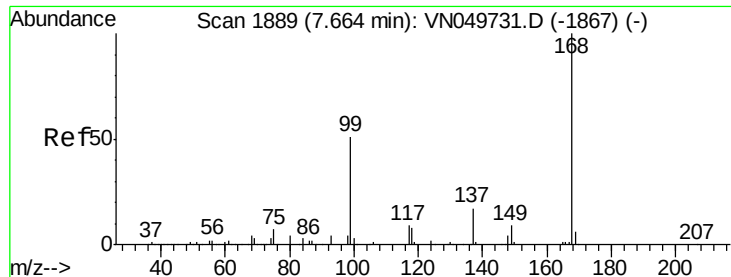
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N062918W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 30 00:55:30 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: VN049749.D

Acq: 6 Jul 2018 19:39

Instrument :

MSVOA_N

ClientSampled :

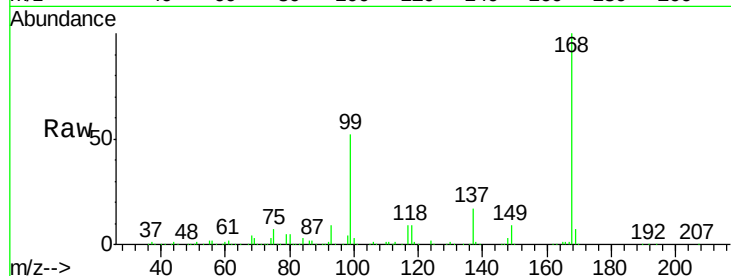
TB-2

Tot Ion:168 Resp: 1495079

Ion Ratio Lower Upper

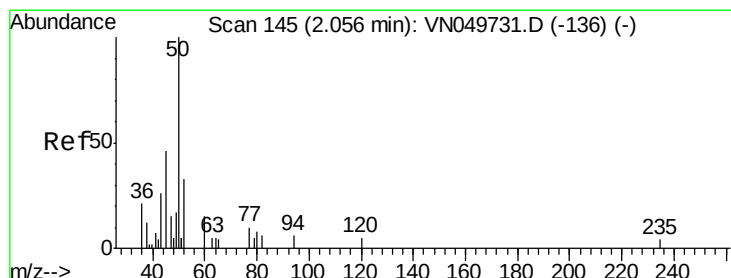
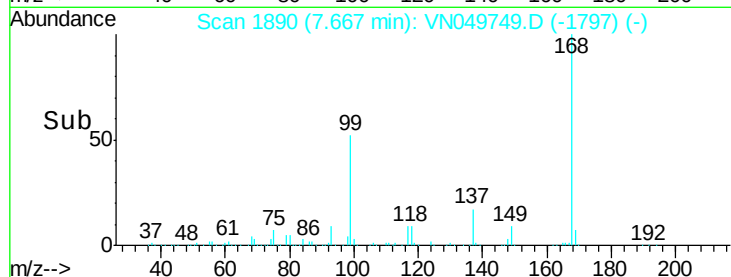
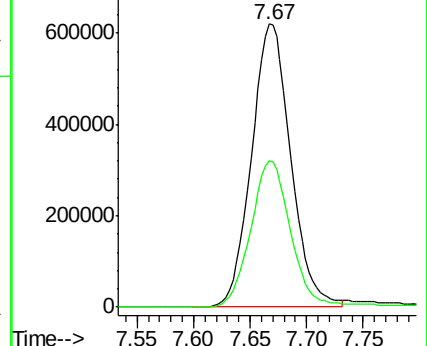
168 100

99 51.8 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#3

Chloromethane

Concen: 0.33 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN049749.D

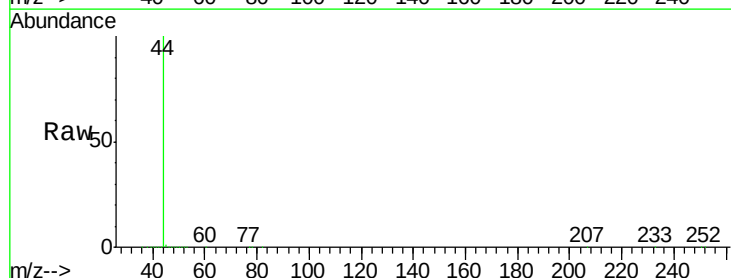
Acq: 6 Jul 2018 19:39

Tgt Ion: 50 Resp: 6872

Ion Ratio Lower Upper

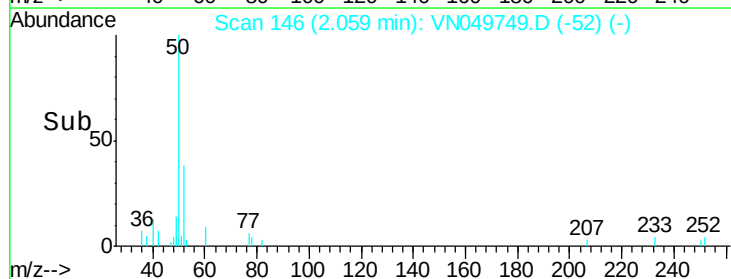
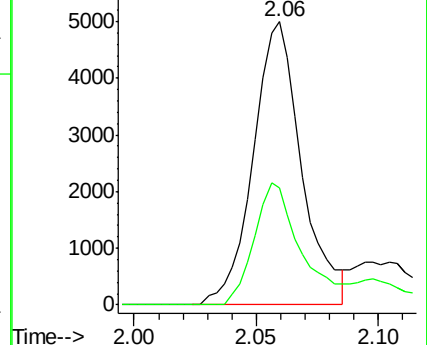
50 100

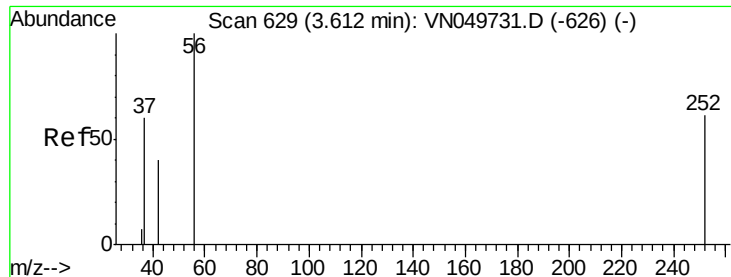
52 41.3 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0





#13

Acrolein

Concen: 0.38 ua/l

RT: 3.62 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN049749.D

Acq: 6 Jul 2018 19:39

Instrument :

MSVOA_N

ClientSampled :

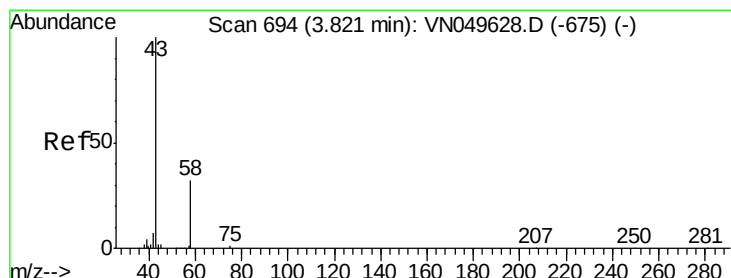
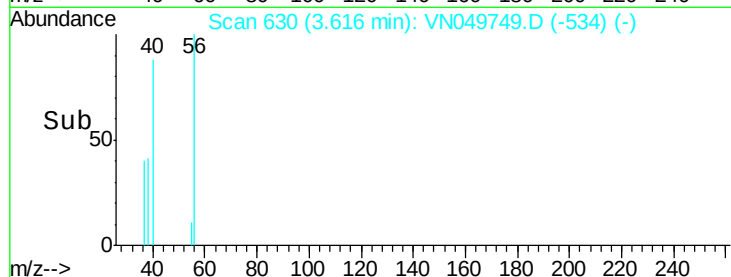
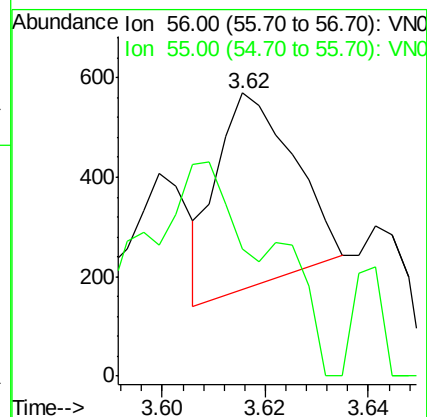
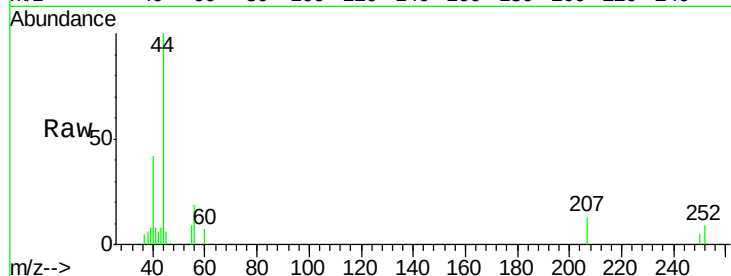
TB-2

Tot Ion: 56 Resp: 406

Ion Ratio Lower Upper

56 100

55 142.6 55.8 83.8#



#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN049749.D

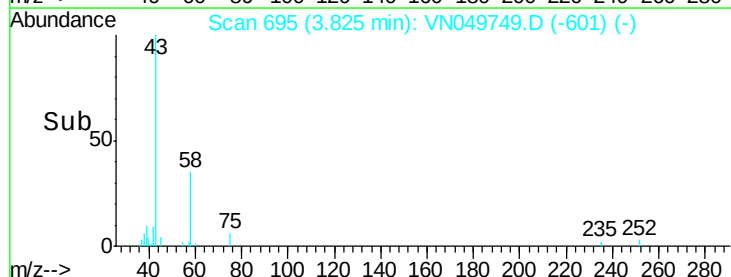
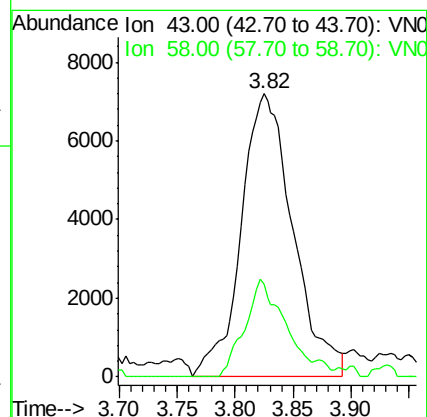
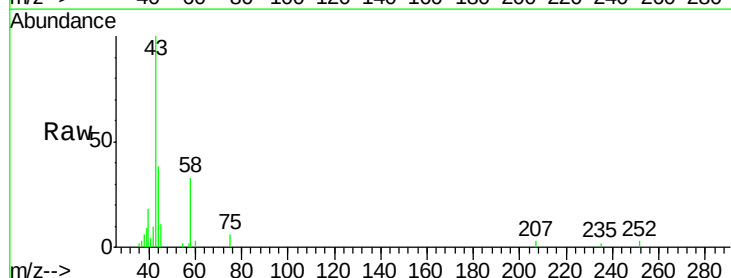
Acq: 6 Jul 2018 19:39

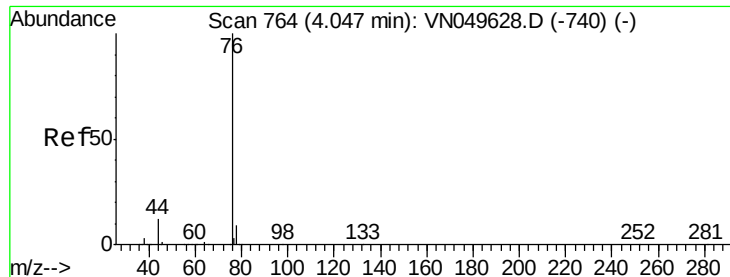
Tgt Ion: 43 Resp: 22361

Ion Ratio Lower Upper

43 100

58 32.6 25.9 38.9





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.05 min Scan# 765

Delta R.T. 0.00 min

Lab File: VN049749.D

Acq: 6 Jul 2018 19:39

Instrument :

MSVOA_N

ClientSampleId :

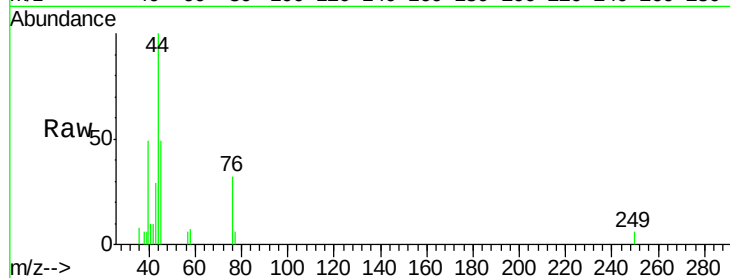
TB-2

Tot Ion: 76 Resp: 839

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN049628.D (-740) (-)

Ion 77.90 (77.60 to 78.60): VN049628.D (-740) (-)

4.05

800

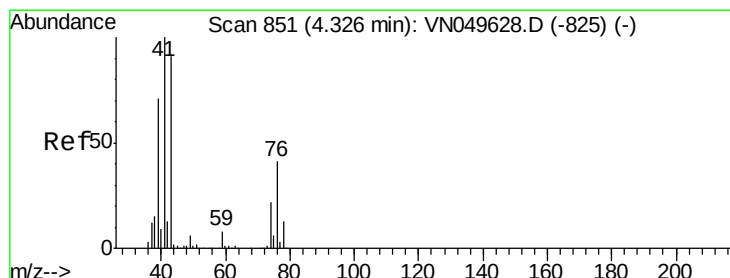
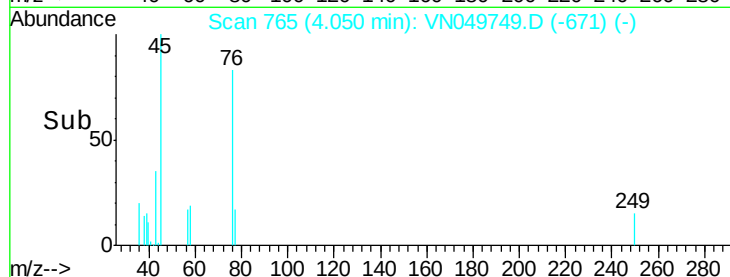
600

400

200

0

Time-->



#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 855

Delta R.T. 0.01 min

Lab File: VN049749.D

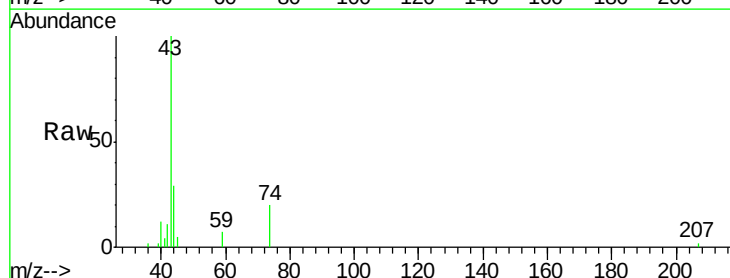
Acq: 6 Jul 2018 19:39

Tgt Ion: 43 Resp: 30581

Ion Ratio Lower Upper

43 100

74 20.7 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN049628.D (-825) (-)

Ion 74.00 (73.70 to 74.70): VN049628.D (-825) (-)

4.34

10000

8000

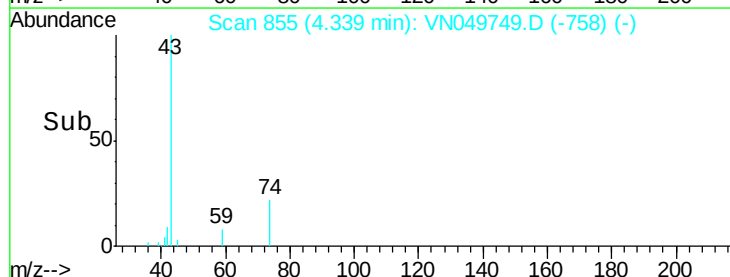
6000

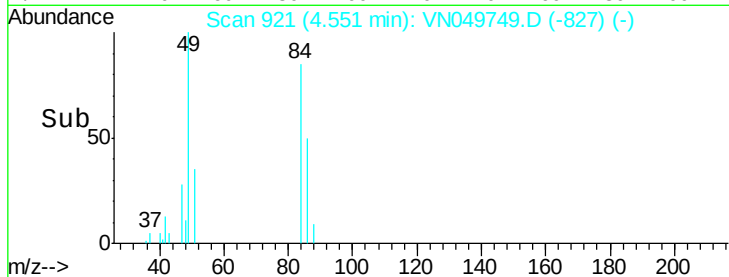
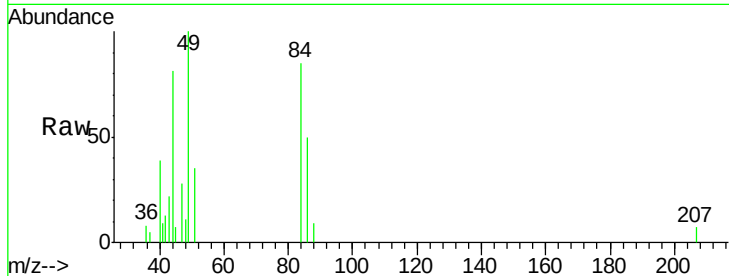
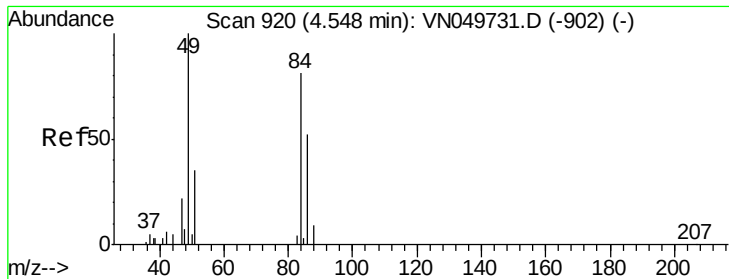
4000

2000

0

Time-->

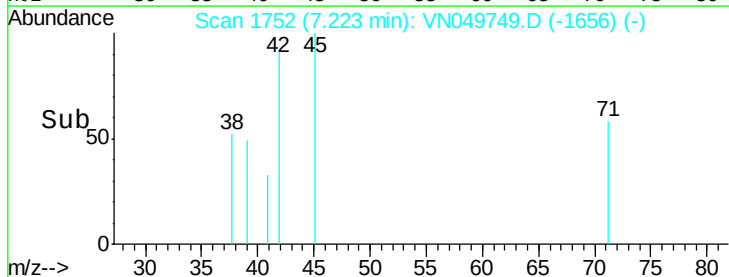
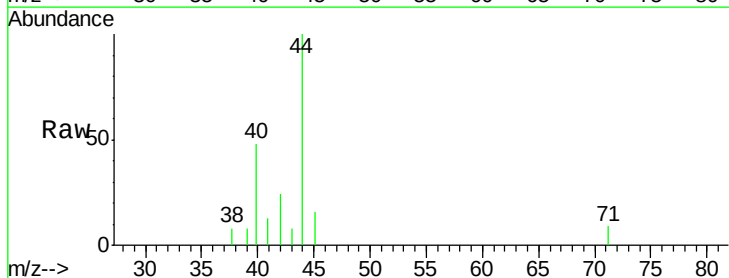
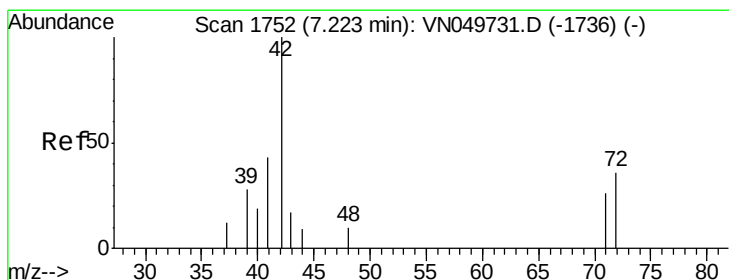
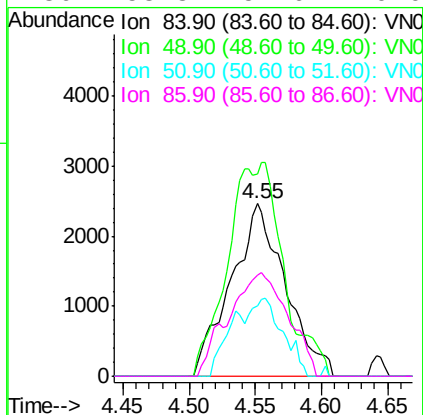




#20
Methylene Chloride
Concen: 0.34 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN049749.D
Acq: 6 Jul 2018 19:39

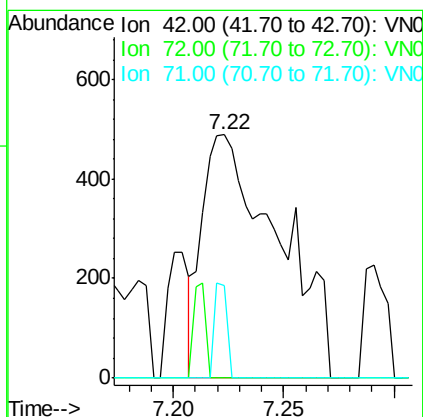
Instrument :
MSVOA_N
ClientSampled :
TB-2

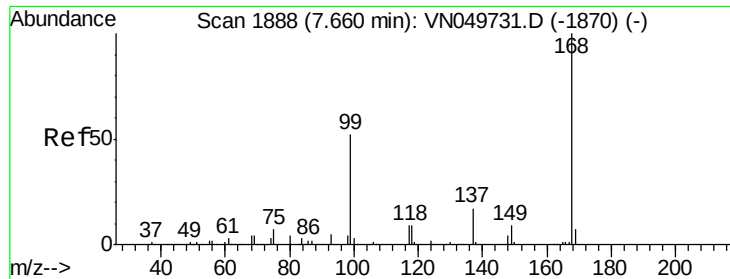
Tot Ion:	84	Resp:	7014
Ion	Ratio	Lower	Upper
84	100		
49	117.4	95.4	143.2
51	41.1	28.4	42.6
86	58.8	52.6	79.0



#29
Tetrahydrofuran
Concen: 0.28 ug/l
RT: 7.22 min Scan# 1752
Delta R.T. 0.01 min
Lab File: VN049749.D
Acq: 6 Jul 2018 19:39

Tgt Ion:	42	Resp:	1168
Ion	Ratio	Lower	Upper
42	100		
72	6.2	35.6	53.4#
71	6.3	34.0	51.0#

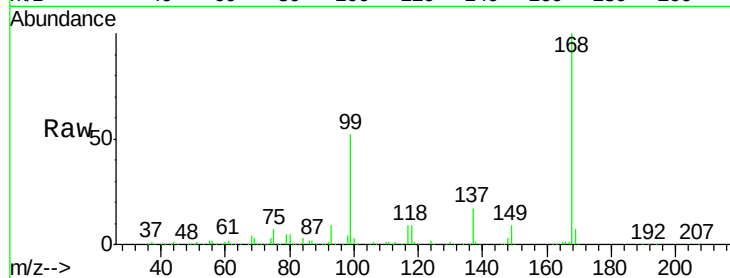




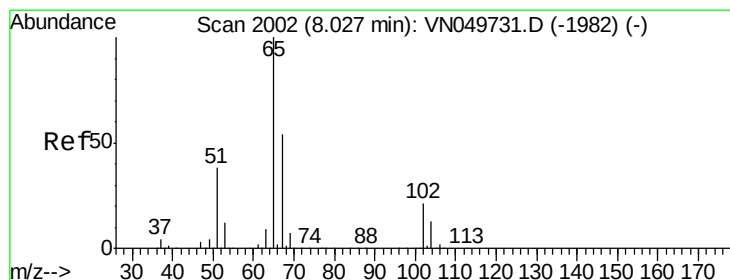
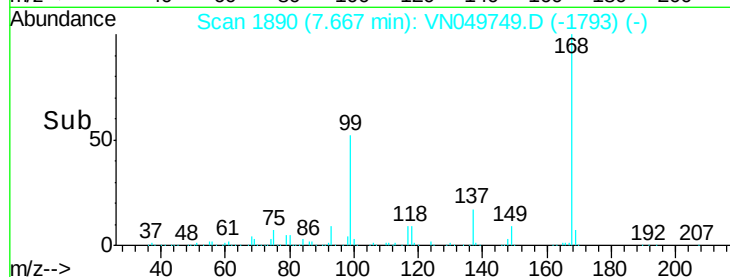
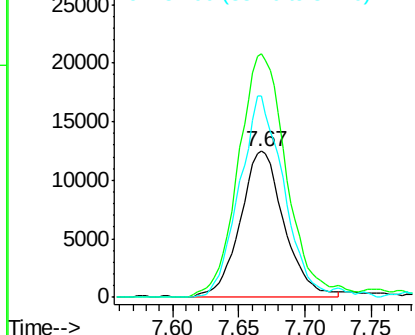
#31
Cyclohexane
Concen: 0.24 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN049749.D
Acq: 6 Jul 2018 19:39

Instrument :
MSVOA_N
ClientSampled :
TB-2

Tot Ion: 56 Resp: 28887
Ion Ratio Lower Upper
56 100
69 166.6 26.6 40.0#
84 137.8 69.0 103.6#

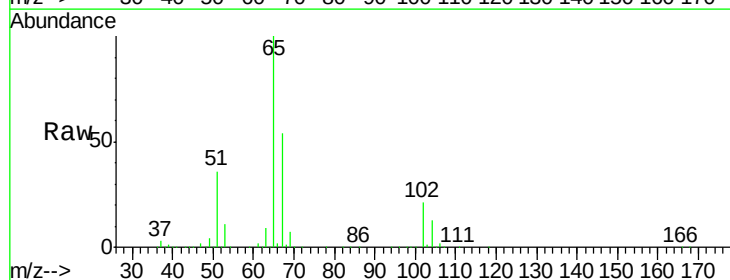


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

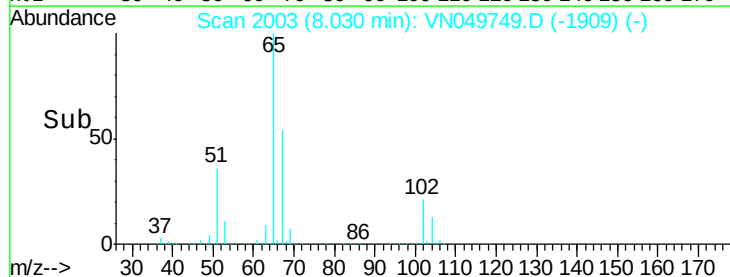
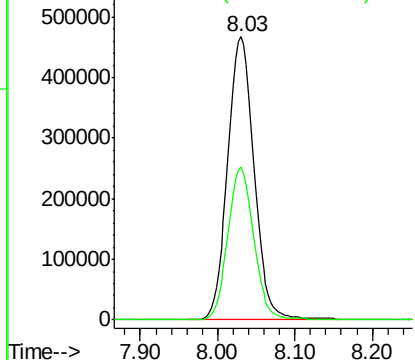


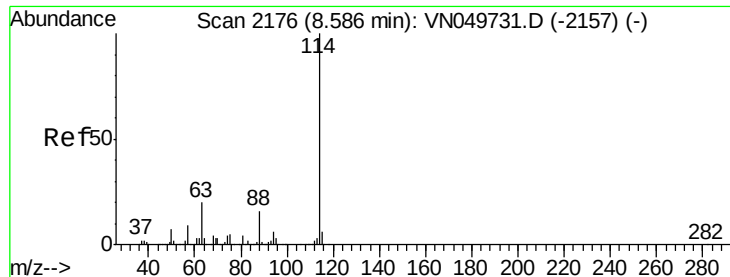
#33
1,2-Dichloroethane-d4
Concen: 56.04 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049749.D
Acq: 6 Jul 2018 19:39

Tgt Ion: 65 Resp: 1106443
Ion Ratio Lower Upper
65 100
67 53.0 0.0 107.2



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





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN049749.D

Acq: 6 Jul 2018 19:39

Instrument :

MSVOA_N

ClientSampleId :

TB-2

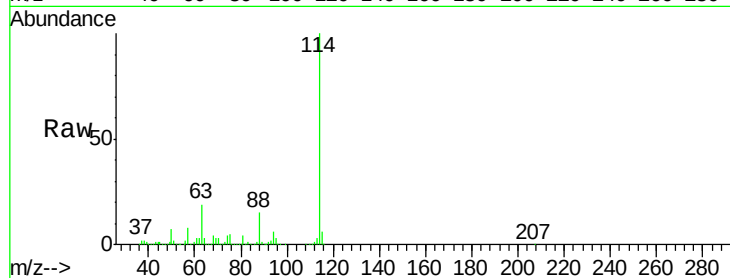
Tot Ion:114 Resp: 2578095

Ion Ratio Lower Upper

114 100

63 19.5 0.0 39.8

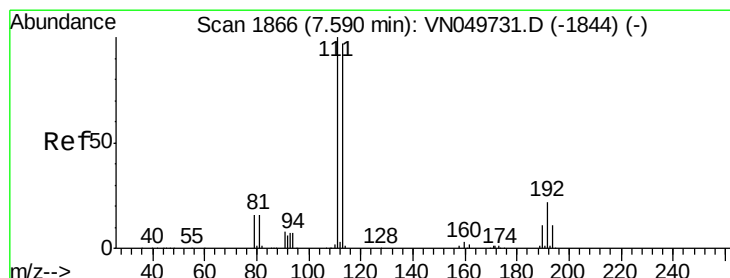
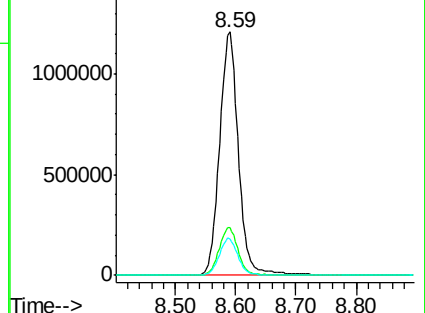
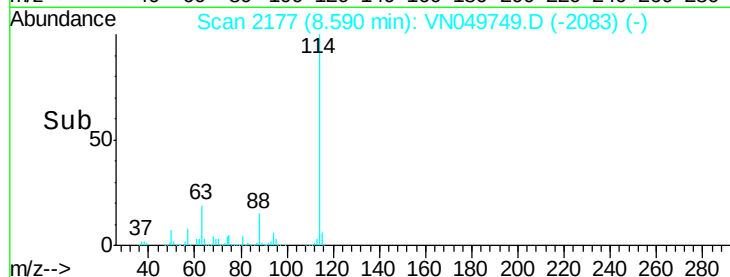
88 15.1 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 47.39 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN049749.D

Acq: 6 Jul 2018 19:39

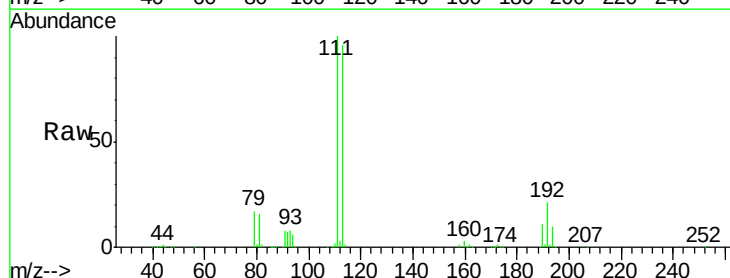
Tgt Ion:113 Resp: 913408

Ion Ratio Lower Upper

113 100

111 102.4 81.8 122.8

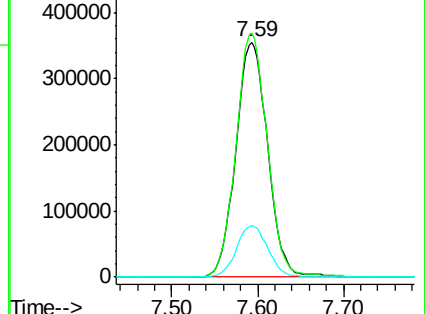
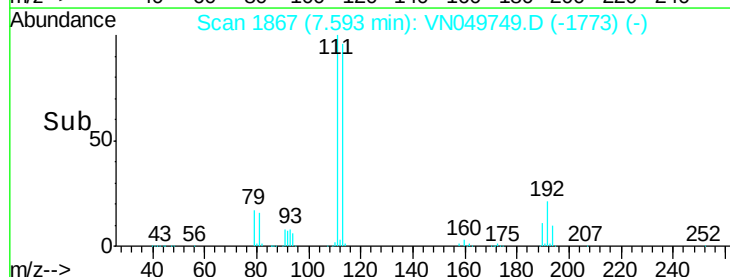
192 21.7 17.8 26.6

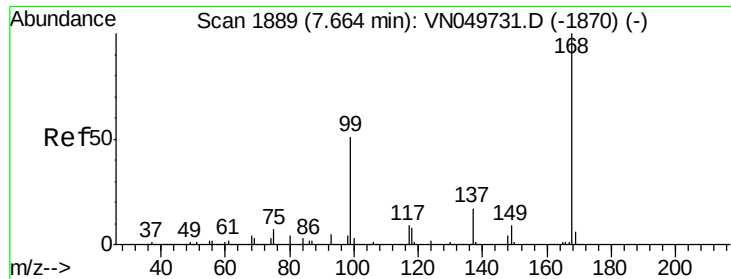


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

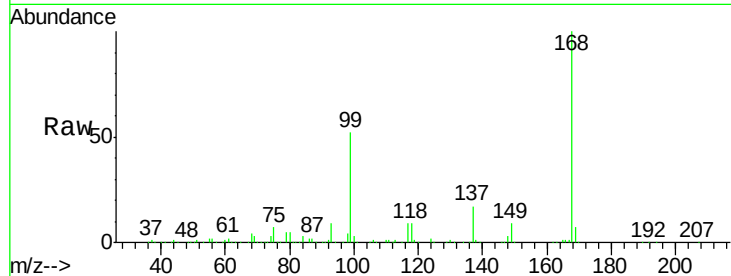




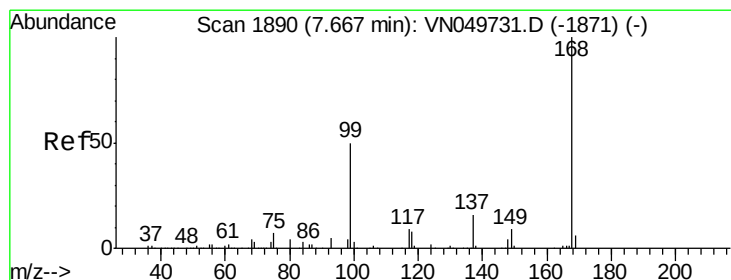
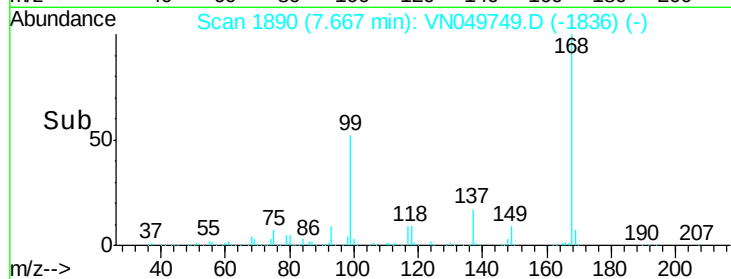
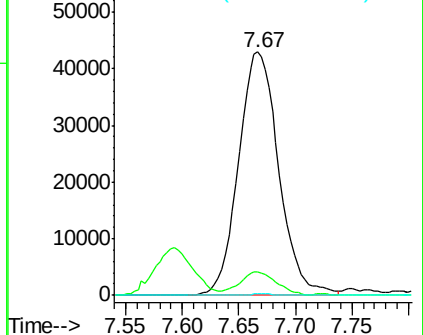
#36
 1,1-Dichloropropene
 Concen: 3.67 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049749.D
 Acq: 6 Jul 2018 19:39

Instrument :
 MSVOA_N
 ClientSampled :
 TB-2

Tot Ion	75	Resp	106416
Ion Ratio	Lower	Upper	
75	100		
110	9.0	18.1	54.4#
77	0.4	24.9	37.3#

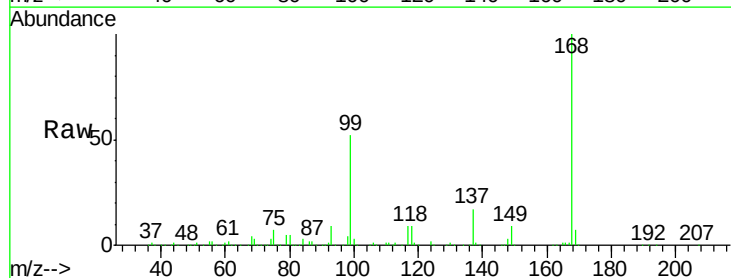


Abundance Ion 74.90 (74.60 to 75.60): VN049731.D (-1870) (-)
 Ion 109.90 (109.60 to 110.60): VN049731.D (-1870) (-)
 Ion 76.90 (76.60 to 77.60): VN049731.D (-1870) (-)

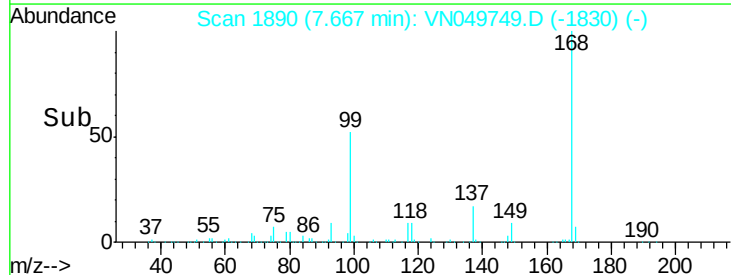
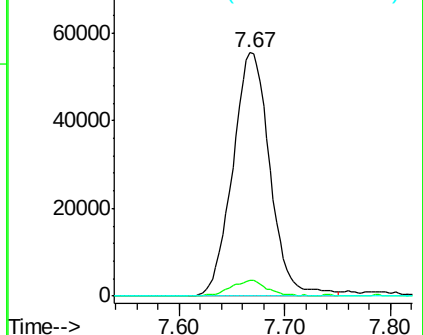


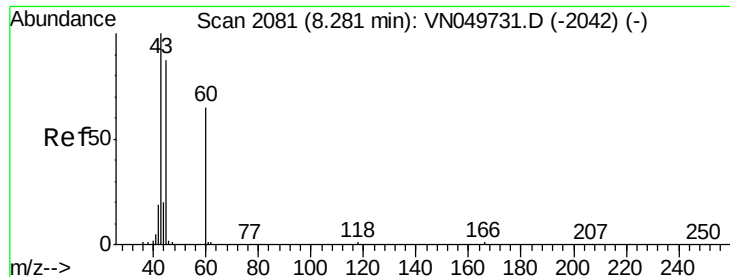
#38
 Carbon Tetrachloride
 Concen: 4.84 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN049749.D
 Acq: 6 Jul 2018 19:39

Tgt Ion	117	Resp	136614
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	6.3	77.2	115.8#
121	0.0	25.0	37.6#



Abundance Ion 116.80 (116.50 to 117.50): VN049731.D (-1871) (-)
 Ion 118.80 (118.50 to 119.50): VN049731.D (-1871) (-)
 Ion 120.80 (120.50 to 121.50): VN049731.D (-1871) (-)





#43

Isopropyl Acetate

Concen: 15.77 ug/l

RT: 8.32 min Scan# 2094

Delta R.T. 0.16 min

Lab File: VN049749.D

Acq: 6 Jul 2018 19:39

Instrument :

MSVOA_N

ClientSampleId :

TB-2

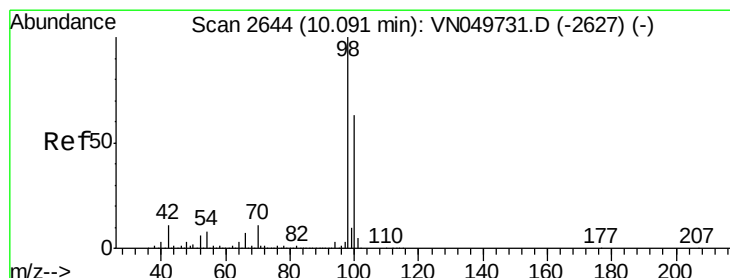
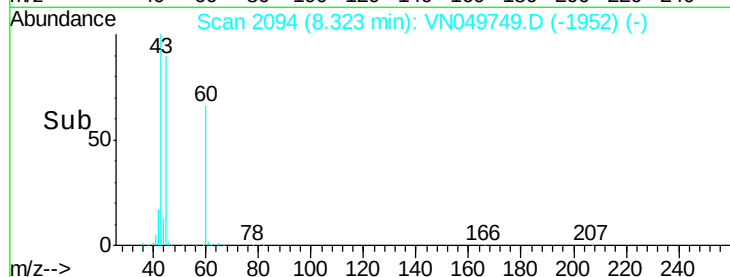
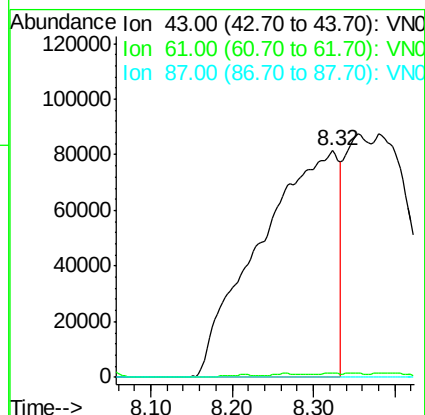
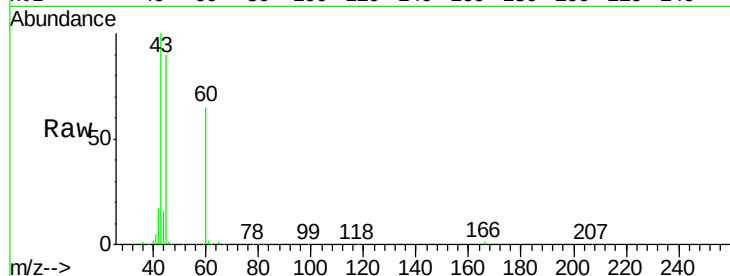
Tot Ion: 43 Resp: 542911

Ion Ratio Lower Upper

43 100

61 0.0 14.9 22.3#

87 0.0 10.0 15.0#



#50

Toluene-d8

Concen: 46.12 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN049749.D

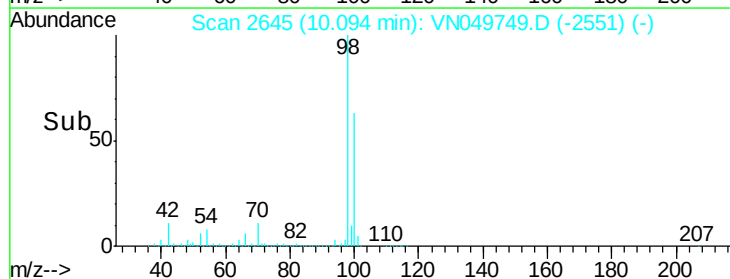
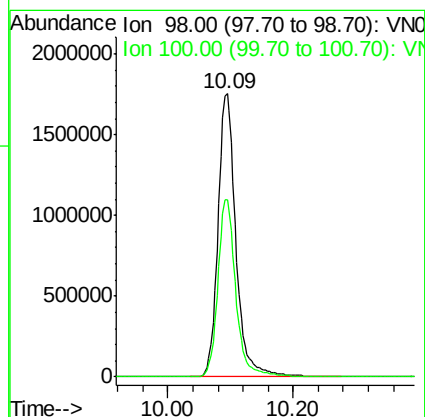
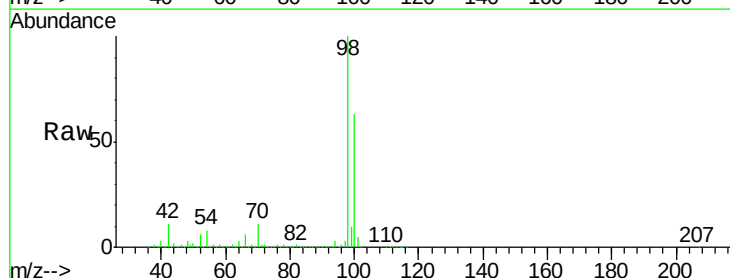
Acq: 6 Jul 2018 19:39

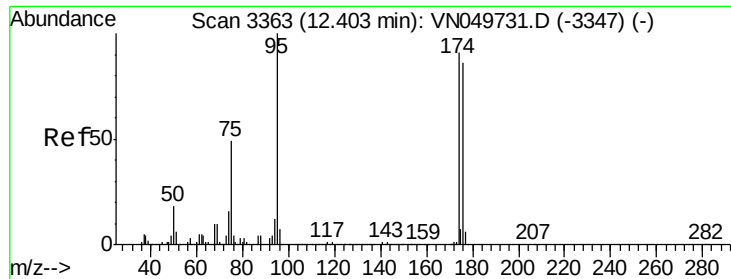
Tgt Ion: 98 Resp: 3479587

Ion Ratio Lower Upper

98 100

100 62.7 51.7 77.5





#62

4-Bromofluorobenzene

Concen: 39.47 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN049749.D

Acq: 6 Jul 2018 19:39

Instrument :

MSVOA_N

ClientSampled :

TB-2

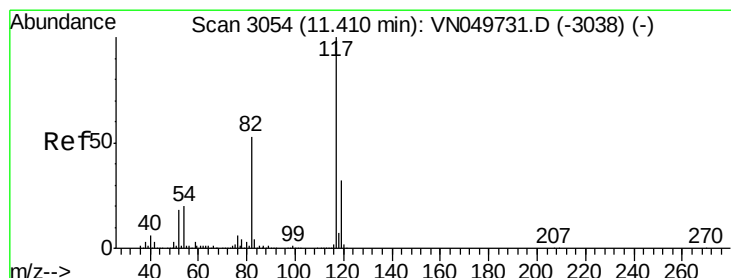
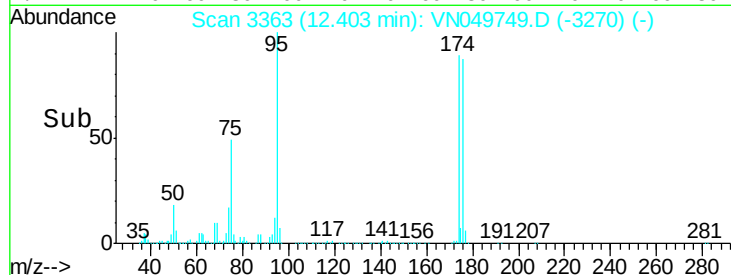
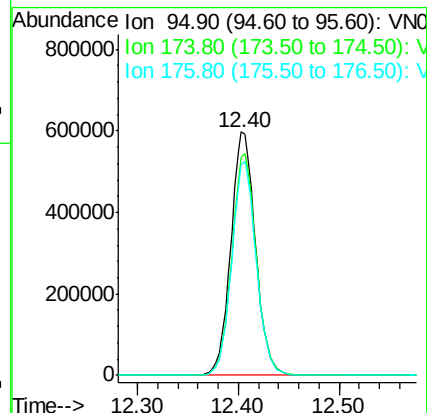
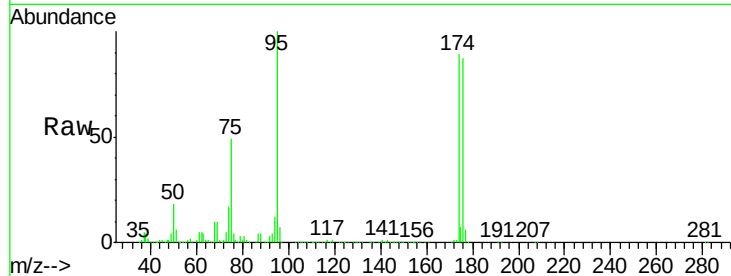
Tot Ion: 95 Resp: 1016710

Ion Ratio Lower Upper

95 100

174 90.9 0.0 179.6

176 87.1 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: VN049749.D

Acq: 6 Jul 2018 19:39

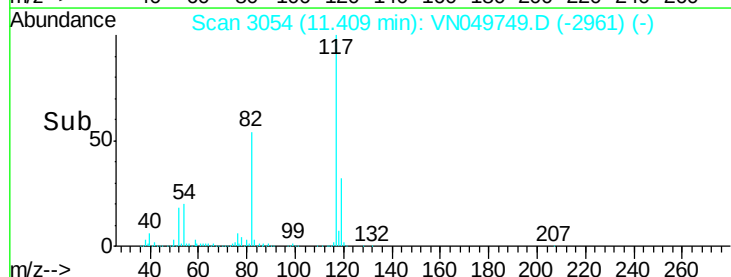
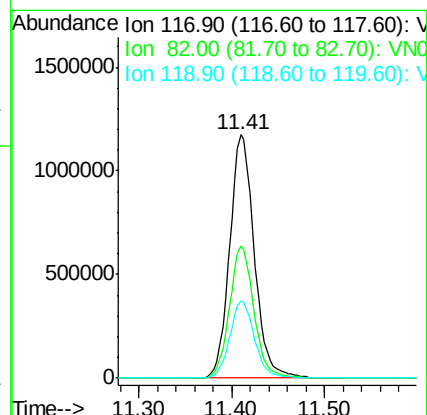
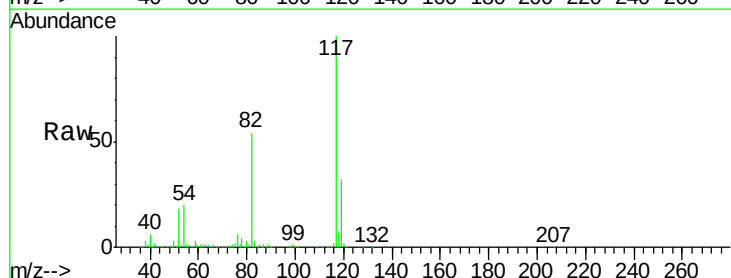
Tgt Ion: 117 Resp: 2156469

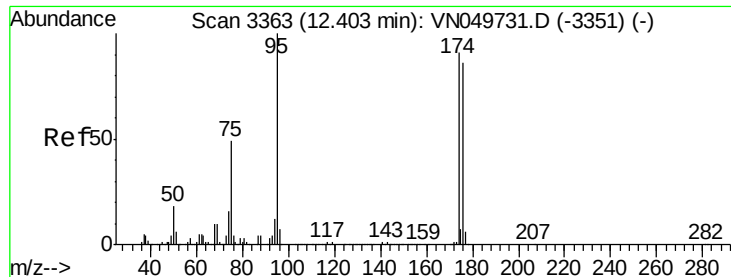
Ion Ratio Lower Upper

117 100

82 54.1 41.9 62.9

119 31.6 25.4 38.2





#71

Bromoform

Concen: 0.56 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN049749.D

Acq: 6 Jul 2018 19:39

Instrument :

MSVOA_N

ClientSampled :

TB-2

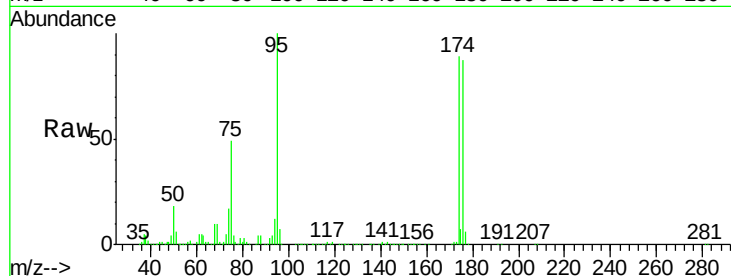
Tot Ion:173 Resp: 7460

Ion Ratio Lower Upper

173 100

175 716.8 24.6 73.8#

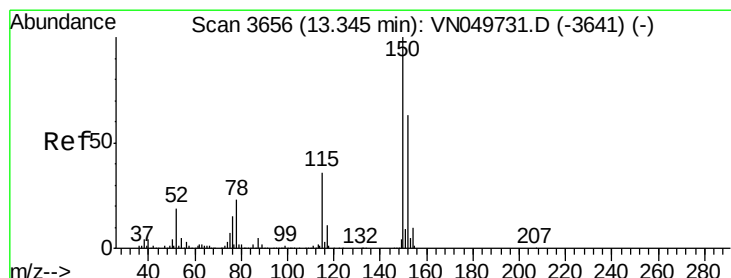
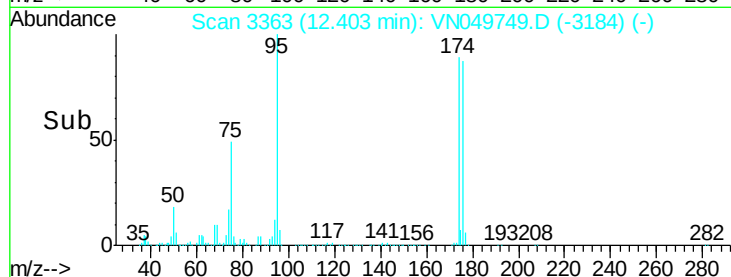
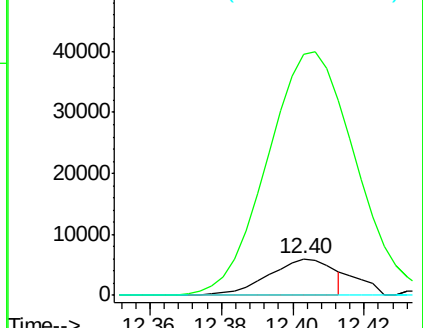
254 0.0 0.2 0.2#



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: VN049749.D

Acq: 6 Jul 2018 19:39

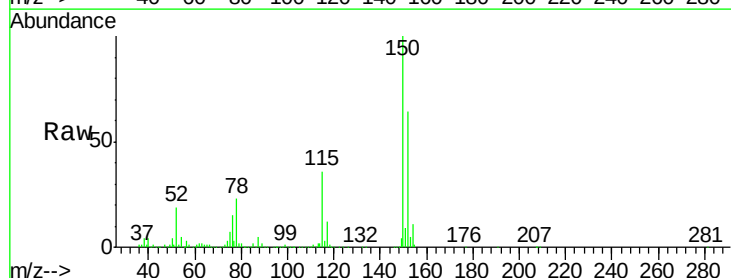
Tgt Ion:152 Resp: 793921

Ion Ratio Lower Upper

152 100

115 56.1 28.1 84.2

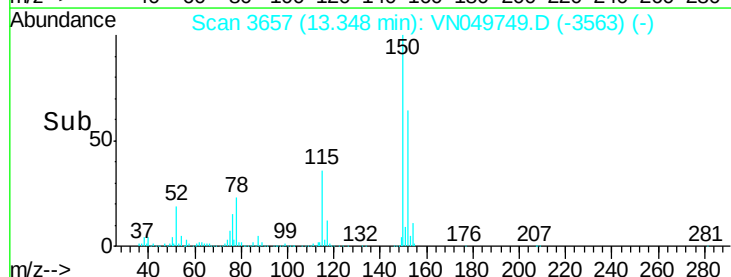
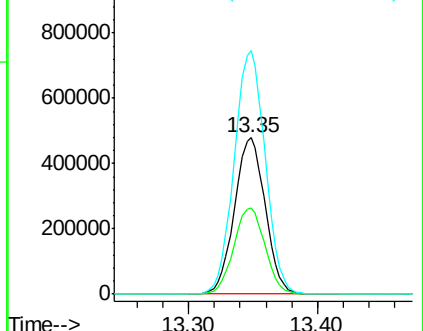
150 156.8 0.0 347.6

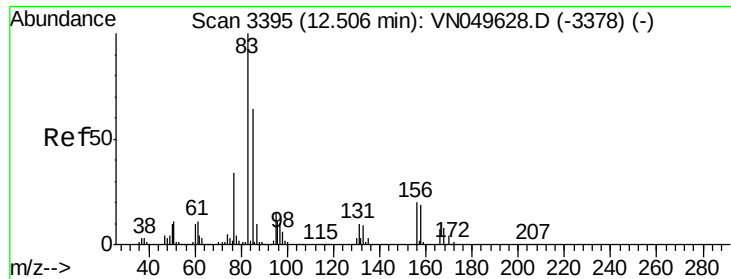


Abundance Ion 151.90 (151.60 to 152.60): V

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: 12.47 min Scan# 3383

Delta R.T. -0.04 min

Lab File: VN049749.D

Acq: 6 Jul 2018 19:39

Instrument :

MSVOA_N

ClientSampled :

TB-2

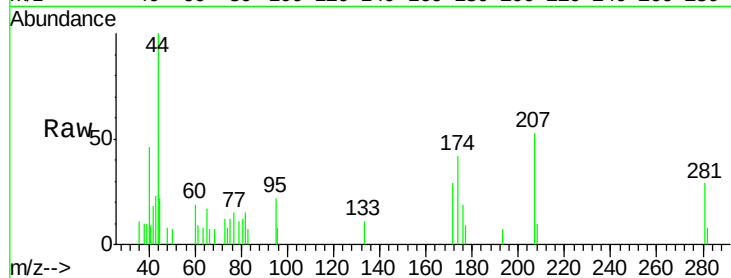
Tot Ion: 83 Resp: 30

Ion Ratio Lower Upper

83 100

131 0.0 5.2 15.6#

85 0.0 32.5 97.4#

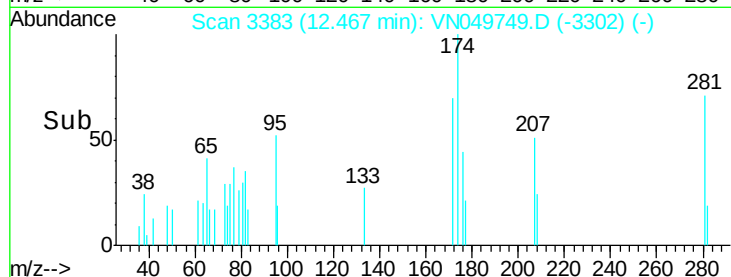


Abundance Ion 82.90 (82.60 to 83.60): VN049749.D (-3383) (-)

Ion 130.80 (130.50 to 131.50): VN049749.D (-3383) (-)

Ion 84.90 (84.60 to 85.60): VN049749.D (-3383) (-)

Time-->



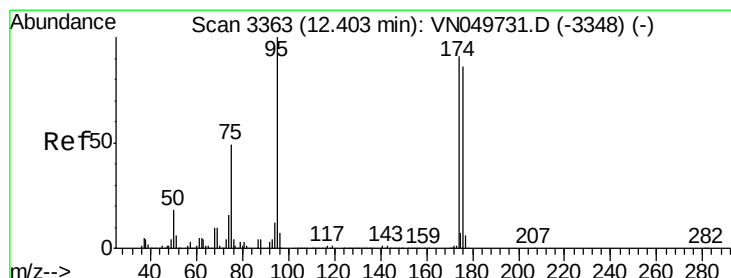
Abundance

Ion 82.90 (82.60 to 83.60): VN049749.D (-3383) (-)

Ion 130.80 (130.50 to 131.50): VN049749.D (-3383) (-)

Ion 84.90 (84.60 to 85.60): VN049749.D (-3383) (-)

Time-->



#76

1,2,3-Trichloropropane

Concen: 39.28 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049749.D

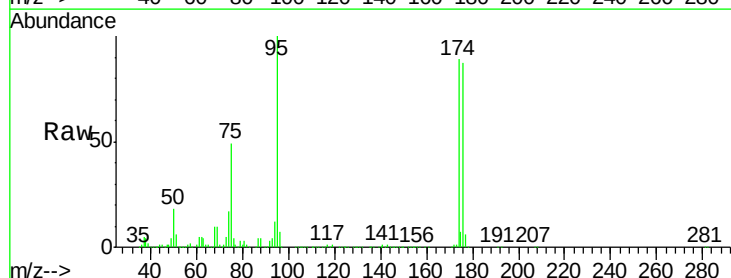
Acq: 6 Jul 2018 19:39

Tgt Ion: 75 Resp: 500153

Ion Ratio Lower Upper

75 100

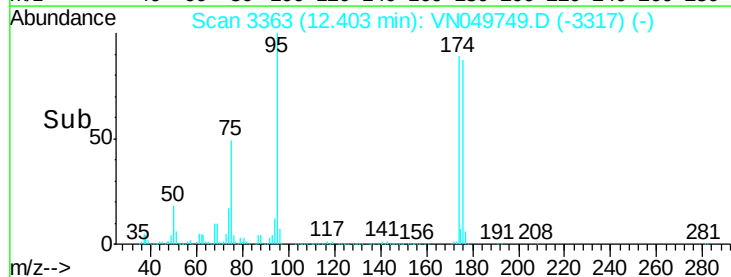
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN049749.D (-3363) (-)

Ion 77.00 (76.70 to 77.70): VN049749.D (-3363) (-)

Time-->

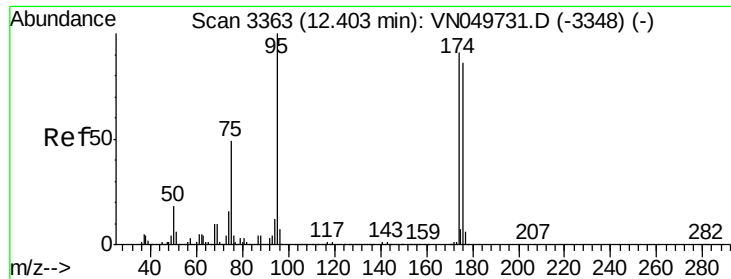


Abundance

Ion 74.90 (74.60 to 75.60): VN049749.D (-3363) (-)

Ion 77.00 (76.70 to 77.70): VN049749.D (-3363) (-)

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 133.41 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049749.D

Acq: 6 Jul 2018 19:39

Instrument :

MSVOA_N

ClientSampleId :

TB-2

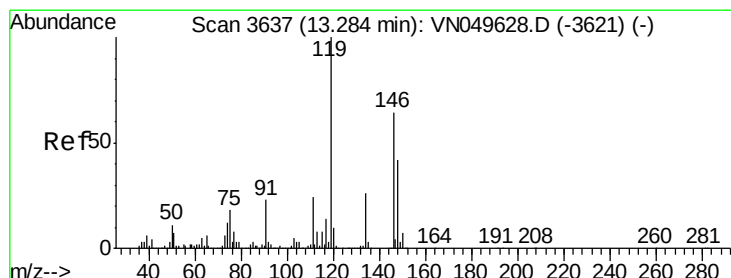
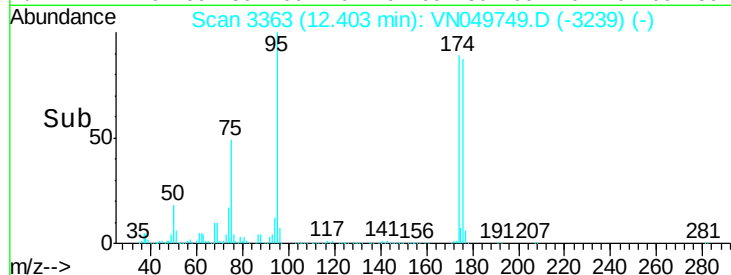
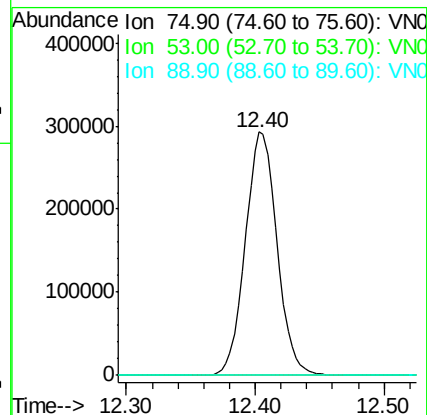
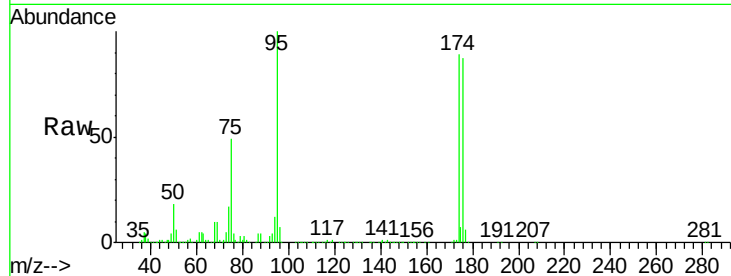
Tot Ion: 75 Resp: 500153

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

89 0.0 35.9 53.9#



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 13.29 min Scan# 3640

Delta R.T. 0.01 min

Lab File: VN049749.D

Acq: 6 Jul 2018 19:39

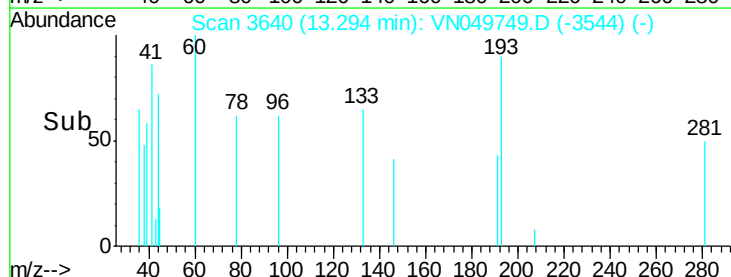
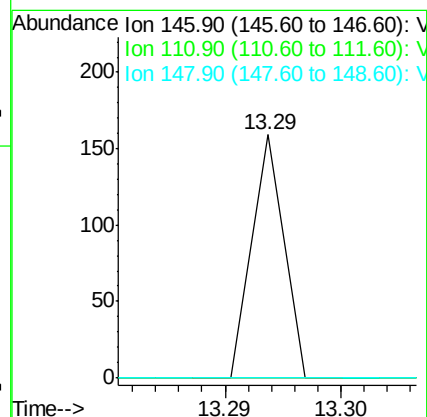
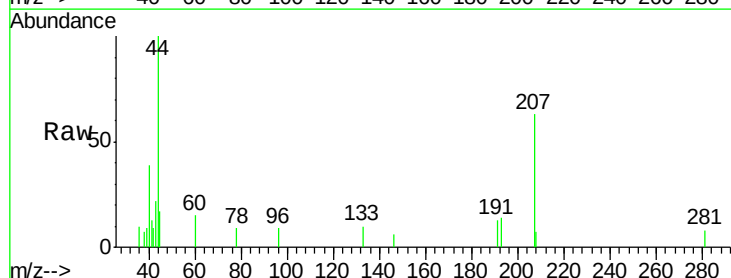
Tgt Ion: 146 Resp: 31

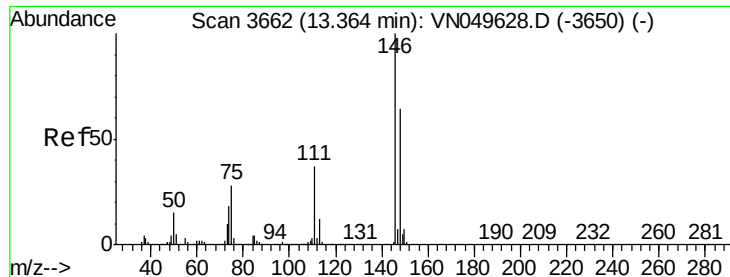
Ion Ratio Lower Upper

146 100

111 0.0 19.0 57.0#

148 0.0 32.5 97.5#

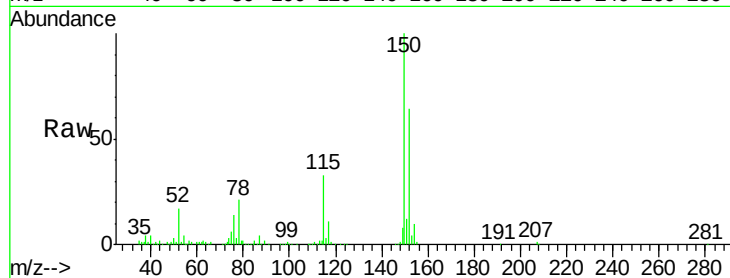




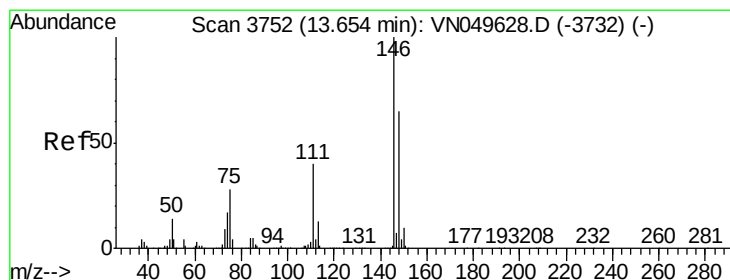
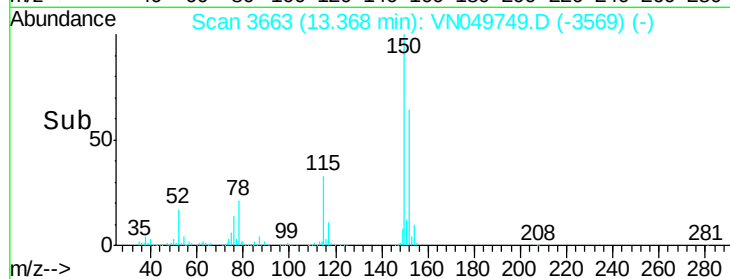
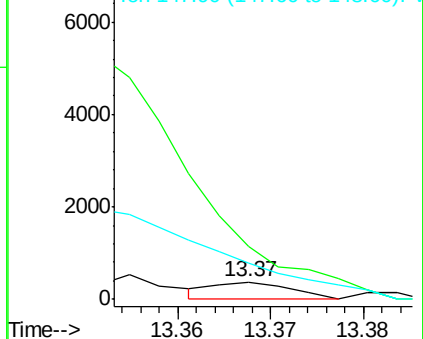
#88
 1,4-Dichlorobenzene
 Concen: Below Cal
 RT: 13.37 min Scan# 3663
 Delta R.T. 0.00 min
 Lab File: VN049749.D
 Acq: 6 Jul 2018 19:39

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-2

Tot Ion:146 Resp: 219
 Ion Ratio Lower Upper
 146 100
 111 0.0 18.9 56.5#
 148 0.0 32.1 96.3#

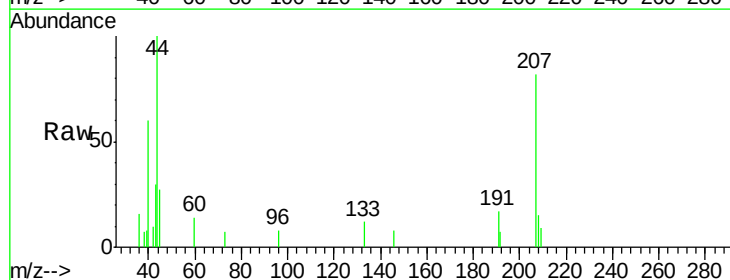


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

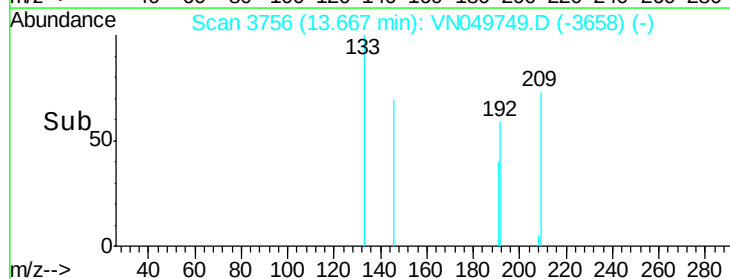
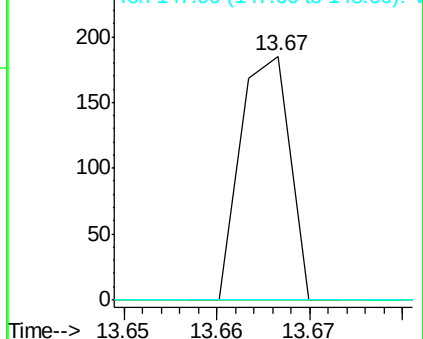


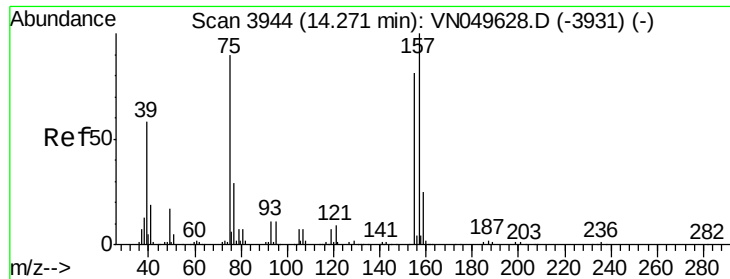
#91
 1,2-Dichlorobenzene
 Concen: Below Cal
 RT: 13.67 min Scan# 3756
 Delta R.T. 0.01 min
 Lab File: VN049749.D
 Acq: 6 Jul 2018 19:39

Tgt Ion:146 Resp: 68
 Ion Ratio Lower Upper
 146 100
 111 0.0 19.7 59.1#
 148 0.0 32.0 96.2#



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.32 min Scan# 3959

Delta R.T. 0.05 min

Lab File: VN049749.D

Acq: 6 Jul 2018 19:39

Instrument :

MSVOA_N

ClientSampled :

TB-2

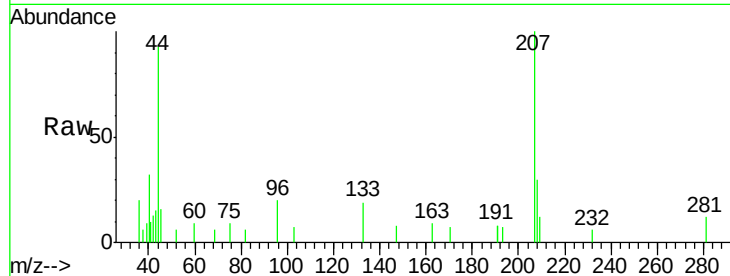
Tot Ion: 75 Resp: 132

Ion Ratio Lower Upper

75 100

155 0.0 45.7 137.1#

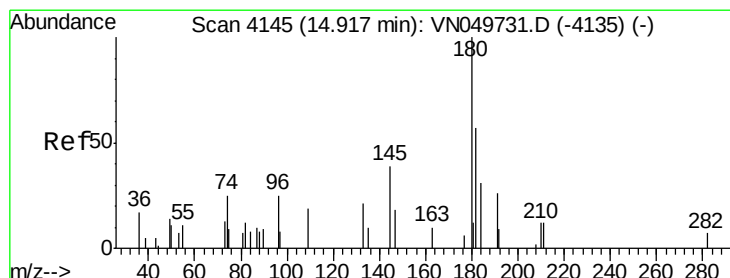
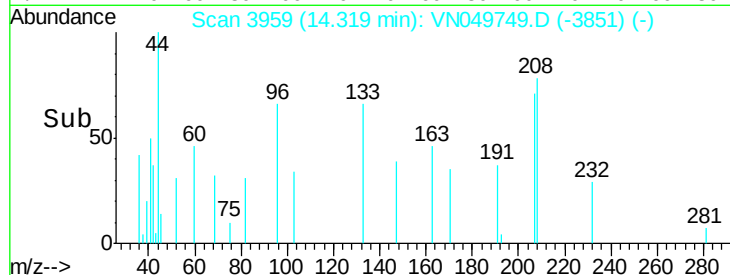
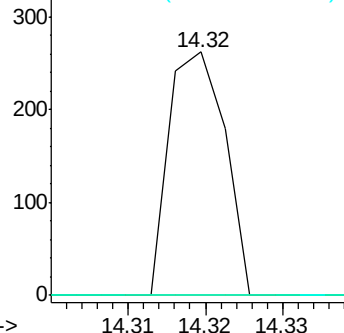
157 0.0 56.9 170.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#93

1,2,4-Trichlorobenzene

Concen: 2.41 ug/l

RT: 14.92 min Scan# 4145

Delta R.T. 0.01 min

Lab File: VN049749.D

Acq: 6 Jul 2018 19:39

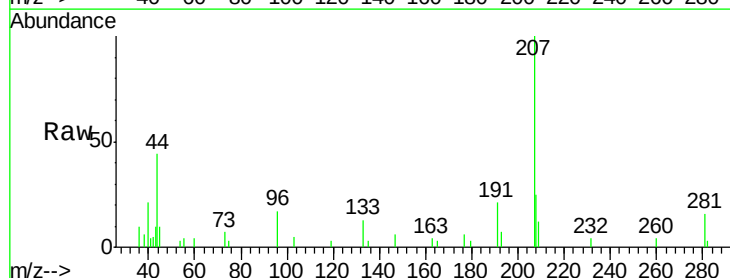
Tgt Ion: 180 Resp: 130

Ion Ratio Lower Upper

180 100

182 56.9 47.3 141.9

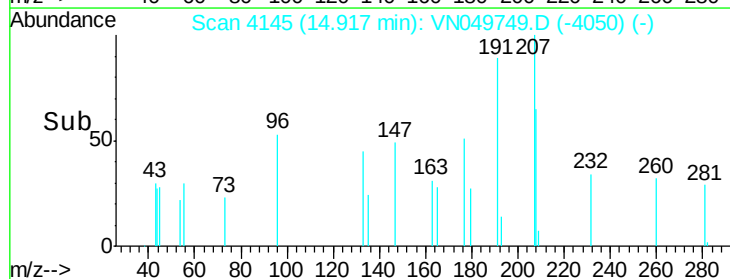
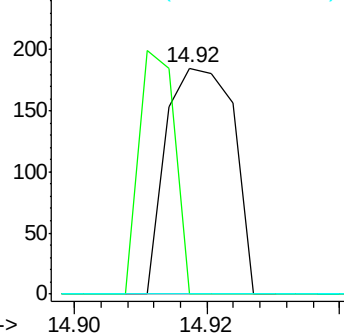
145 0.0 14.4 43.0#

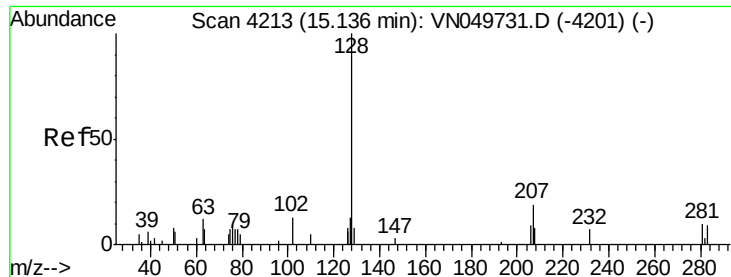


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 4.06 ug/l

RT: 15.14 min Scan# 4215

Delta R.T. 0.01 min

Lab File: VN049749.D

Acq: 6 Jul 2018 19:39

Instrument :

MSVOA_N

ClientSampleId :

TB-2

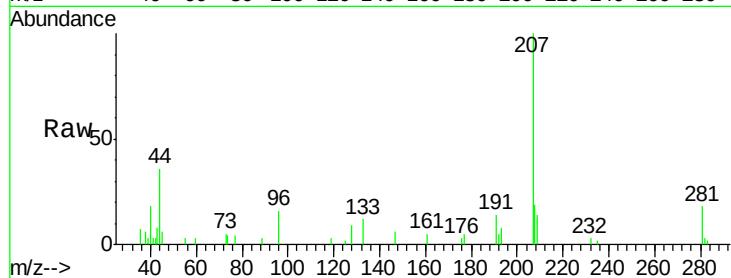
Tot Ion:128 Resp: 593

Ion Ratio Lower Upper

128 100

127 5.1 10.4 15.6#

129 0.0 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

